%% Master Thesis

% NB: High performance code

%Setup

clc

clear all

%Import file

opts = delimitedTextImportOptions("NumVariables", 22);

opts.DataLines = [2, Inf];

opts.Delimiter = "\t";

opts.VariableNames = ["pcid", "yr", "currency", "item\_15302", "item\_15304", "item\_4", "item\_9", "item\_11102", "item\_13420", "item\_78", "item\_63", "item\_30", "item\_35", "item\_39", "item\_87", "item\_82", "item\_105", "item\_114", "item\_15307", "item\_50109", "item\_14507", "item\_14018"];

opts.VariableTypes = ["double", "double", "string", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double"];

opts.ImportErrorRule = "omitrow";

opts.MissingRule = "omitrow";

opts.ExtraColumnsRule = "ignore";

opts.EmptyLineRule = "read";

opts = setvaropts(opts, "currency", "WhitespaceRule", "preserve");

opts = setvaropts(opts, "currency", "EmptyFieldRule", "auto");

opts = setvaropts(opts, ["item\_11102", "item\_50109"], "TrimNonNumeric", true);

opts = setvaropts(opts, ["item\_11102", "item\_50109"], "ThousandsSeparator", ",");

Data = readtable("/Users/joakim/Desktop/CCGR Data/J.txt", opts);

clear opts

%% Sorting variables

clc

%Create new variable names

NewData=table;

NewData.pcid=Data.pcid;

NewData.yr=Data.yr;

NewData.LargestFamilySumUltOwnership=Data.item\_15302;

NewData.LargestFamilyHasCEO=Data.item\_15304;

NewData.CEOBirthYear=Data.item\_4;

NewData.Revenue=Data.item\_9;

NewData.IndustryCodes=Data.item\_11102;

NewData.CompanyAge=Data.item\_13420;

NewData.TotalCurrentAssets=Data.item\_78;

NewData.TotalFixedAssets=Data.item\_63;

NewData.OtherInterestExpenses=Data.item\_30;

NewData.IncomeBeforeExtraoridinaryItems=Data.item\_35;

NewData.NetIncome=Data.item\_39;

NewData.TotalEquity=Data.item\_87;

NewData.TotalPaidinCapital=Data.item\_82;

NewData.DividendsPayable=Data.item\_105;

NewData.CEOSalary=Data.item\_114;

NewData.LargestFamilyNumberOfOwners=Data.item\_15307;

NewData.NumberOfEmployees=Data.item\_50109;

NewData.IsIndependent=Data.item\_14507;

NewData.AggregateFractionHeldByInstitutionalOwners=Data.item\_14018;

% Create new variables

NewData.EBIT = NewData.NetIncome - NewData.OtherInterestExpenses;

NewData.TotalAssets = NewData.TotalCurrentAssets + NewData.TotalFixedAssets;

NewData.ROA = NewData.EBIT ./ NewData.TotalAssets;

NewData.ROE = NewData.NetIncome ./ NewData.TotalEquity;

toDelete = NewData.Revenue == 0;

NewData(toDelete,:) = [];

toDelete = NewData.NetIncome == 0;

NewData(toDelete,:) = [];

toDelete = NewData.TotalAssets == 0;

NewData(toDelete,:) = [];

toDelete = NewData.TotalAssets == 0;

NewData(toDelete,:) = [];

toDelete = NewData.TotalAssets == 0;

NewData(toDelete,:) = [];

toDelete = NewData.NumberOfEmployees == 0;

NewData(toDelete,:) = [];

%% Yearly tables

i=1;

for i=1:1

YearlyData.Data2000=NewData;

toDelete = NewData.yr ~= 2000;

YearlyData.Data2000(toDelete,:) = [];

YearlyData.Data2001=NewData;

toDelete = NewData.yr ~= 2001;

YearlyData.Data2001(toDelete,:) = [];

YearlyData.Data2002=NewData;

toDelete = NewData.yr ~= 2002;

YearlyData.Data2002(toDelete,:) = [];

YearlyData.Data2003=NewData;

toDelete = NewData.yr ~= 2003;

YearlyData.Data2003(toDelete,:) = [];

YearlyData.Data2004=NewData;

toDelete = NewData.yr ~= 2004;

YearlyData.Data2004(toDelete,:) = [];

YearlyData.Data2005=NewData;

toDelete = NewData.yr ~= 2005;

YearlyData.Data2005(toDelete,:) = [];

YearlyData.Data2006=NewData;

toDelete = NewData.yr ~= 2006;

YearlyData.Data2006(toDelete,:) = [];

YearlyData.Data2007=NewData;

toDelete = NewData.yr ~= 2007;

YearlyData.Data2007(toDelete,:) = [];

YearlyData.Data2008=NewData;

toDelete = NewData.yr ~= 2008;

YearlyData.Data2008(toDelete,:) = [];

YearlyData.Data2009=NewData;

toDelete = NewData.yr ~= 2009;

YearlyData.Data2009(toDelete,:) = [];

YearlyData.Data2010=NewData;

toDelete = NewData.yr ~= 2010;

YearlyData.Data2010(toDelete,:) = [];

YearlyData.Data2011=NewData;

toDelete = NewData.yr ~= 2011;

YearlyData.Data2011(toDelete,:) = [];

YearlyData.Data2012=NewData;

toDelete = NewData.yr ~= 2012;

YearlyData.Data2012(toDelete,:) = [];

YearlyData.Data2013=NewData;

toDelete = NewData.yr ~= 2013;

YearlyData.Data2013(toDelete,:) = [];

YearlyData.Data2014=NewData;

toDelete = NewData.yr ~= 2014;

YearlyData.Data2014(toDelete,:) = [];

YearlyData.Data2015=NewData;

toDelete = NewData.yr ~= 2015;

YearlyData.Data2015(toDelete,:) = [];

clear toDelete

end%Family

%% Statistic overview family control 2000

toDelete = YearlyData.Data2000.LargestFamilySumUltOwnership < 100;

YearlyData.Data2000(toDelete,:) = [];

toDelete = YearlyData.Data2000.LargestFamilyHasCEO < 1;

YearlyData.Data2000(toDelete,:) = [];

toDelete = YearlyData.Data2000.CompanyAge > 1;

YearlyData.Data2000(toDelete,:) = [];

toDelete = YearlyData.Data2000.IsIndependent < 1;

YearlyData.Data2000(toDelete,:) = [];

toDelete = YearlyData.Data2000.Revenue == 0;

YearlyData.Data2000(toDelete,:) = [];

toDelete = YearlyData.Data2000.NetIncome == 0;

YearlyData.Data2000(toDelete,:) = [];

toDelete = YearlyData.Data2000.NumberOfEmployees == 0;

YearlyData.Data2000(toDelete,:) = [];

toDelete = YearlyData.Data2000.TotalAssets == 0;

YearlyData.Data2000(toDelete,:) = [];

%% Statistic overview family control 2001

idlist = YearlyData.Data2000.pcid;

Data2001Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2001);

for k=1:length(idlist)

if YearlyData.Data2001.pcid(i) == idlist(k)

Data2001Temp(s,:) = YearlyData.Data2001(i,:);

s=s+1;

end

end

end

YearlyData.Data2001 = Data2001Temp;

clear Data2001Temp

%% Statistic overview family control 2002

idlist = YearlyData.Data2001.pcid;

Data2002Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2002);

for k=1:length(idlist)

if YearlyData.Data2002.pcid(i) == idlist(k)

Data2002Temp(s,:) = YearlyData.Data2002(i,:);

s=s+1;

end

end

end

YearlyData.Data2002 = Data2002Temp;

clear Data2002Temp

%% Statistic overview family control 2003

idlist = YearlyData.Data2002.pcid;

Data2003Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2003);

for k=1:length(idlist)

if YearlyData.Data2003.pcid(i) == idlist(k)

Data2003Temp(s,:) = YearlyData.Data2003(i,:);

s=s+1;

end

end

end

YearlyData.Data2003 = Data2003Temp;

clear Data2003Temp

%% Statistic overview family control 2004

idlist = YearlyData.Data2003.pcid;

Data2004Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2004);

for k=1:length(idlist)

if YearlyData.Data2004.pcid(i) == idlist(k)

Data2004Temp(s,:) = YearlyData.Data2004(i,:);

s=s+1;

end

end

end

YearlyData.Data2004 = Data2004Temp;

clear Data2004Temp

%% Statistic overview family control 2005

idlist = YearlyData.Data2004.pcid;

Data2005Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2005);

for k=1:length(idlist)

if YearlyData.Data2005.pcid(i) == idlist(k)

Data2005Temp(s,:) = YearlyData.Data2005(i,:);

s=s+1;

end

end

end

YearlyData.Data2005 = Data2005Temp;

clear Data2005Temp

%% Statistic overview family control 2006

idlist = YearlyData.Data2005.pcid;

Data2006Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2006);

for k=1:length(idlist)

if YearlyData.Data2006.pcid(i) == idlist(k)

Data2006Temp(s,:) = YearlyData.Data2006(i,:);

s=s+1;

end

end

end

YearlyData.Data2006 = Data2006Temp;

clear Data2006Temp

%% Statistic overview family control 2007

idlist = YearlyData.Data2006.pcid;

Data2007Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2007);

for k=1:length(idlist)

if YearlyData.Data2007.pcid(i) == idlist(k)

Data2007Temp(s,:) = YearlyData.Data2007(i,:);

s=s+1;

end

end

end

YearlyData.Data2007 = Data2007Temp;

clear Data2007Temp

%% Statistic overview family control 2008

idlist = YearlyData.Data2007.pcid;

Data2008Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2008);

for k=1:length(idlist)

if YearlyData.Data2008.pcid(i) == idlist(k)

Data2008Temp(s,:) = YearlyData.Data2008(i,:);

s=s+1;

end

end

end

YearlyData.Data2008 = Data2008Temp;

clear Data2008Temp

%% Statistic overview family control 2009

idlist = YearlyData.Data2008.pcid;

Data2009Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2009);

for k=1:length(idlist)

if YearlyData.Data2009.pcid(i) == idlist(k)

Data2009Temp(s,:) = YearlyData.Data2009(i,:);

s=s+1;

end

end

end

YearlyData.Data2009 = Data2009Temp;

clear Data2009Temp

%% Statistic overview family control 2010

idlist = YearlyData.Data2009.pcid;

Data2010Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2010);

for k=1:length(idlist)

if YearlyData.Data2010.pcid(i) == idlist(k)

Data2010Temp(s,:) = YearlyData.Data2010(i,:);

s=s+1;

end

end

end

YearlyData.Data2010 = Data2010Temp;

clear Data2010Temp

%% Statistic overview family control 2011

idlist = YearlyData.Data2010.pcid;

Data2011Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2011);

for k=1:length(idlist)

if YearlyData.Data2011.pcid(i) == idlist(k)

Data2011Temp(s,:) = YearlyData.Data2011(i,:);

s=s+1;

end

end

end

YearlyData.Data2011 = Data2011Temp;

clear Data2011Temp

%% Statistic overview family control 2012

idlist = YearlyData.Data2011.pcid;

Data2012Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2012);

for k=1:length(idlist)

if YearlyData.Data2012.pcid(i) == idlist(k)

Data2012Temp(s,:) = YearlyData.Data2012(i,:);

s=s+1;

end

end

end

YearlyData.Data2012 = Data2012Temp;

clear Data2012Temp

%% Statistic overview family control 2013

idlist = YearlyData.Data2012.pcid;

Data2013Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2013);

for k=1:length(idlist)

if YearlyData.Data2013.pcid(i) == idlist(k)

Data2013Temp(s,:) = YearlyData.Data2013(i,:);

s=s+1;

end

end

end

YearlyData.Data2013 = Data2013Temp;

clear Data2013Temp

%% Statistic overview family control 2014

idlist = YearlyData.Data2013.pcid;

Data2014Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2014);

for k=1:length(idlist)

if YearlyData.Data2014.pcid(i) == idlist(k)

Data2014Temp(s,:) = YearlyData.Data2014(i,:);

s=s+1;

end

end

end

YearlyData.Data2014 = Data2014Temp;

clear Data2014Temp

%% Statistic overview family control 2015

idlist = YearlyData.Data2014.pcid;

Data2015Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2015);

for k=1:length(idlist)

if YearlyData.Data2015.pcid(i) == idlist(k)

Data2015Temp(s,:) = YearlyData.Data2015(i,:);

s=s+1;

end

end

end

YearlyData.Data2015 = Data2015Temp;

clear Data2015Temp

%% Yearly tables NF

i=1;

for i=1:1

YearlyDataNF.Data2000=NewData;

toDelete = NewData.yr ~= 2000;

YearlyDataNF.Data2000(toDelete,:) = [];

YearlyDataNF.Data2001=NewData;

toDelete = NewData.yr ~= 2001;

YearlyDataNF.Data2001(toDelete,:) = [];

YearlyDataNF.Data2002=NewData;

toDelete = NewData.yr ~= 2002;

YearlyDataNF.Data2002(toDelete,:) = [];

YearlyDataNF.Data2003=NewData;

toDelete = NewData.yr ~= 2003;

YearlyDataNF.Data2003(toDelete,:) = [];

YearlyDataNF.Data2004=NewData;

toDelete = NewData.yr ~= 2004;

YearlyDataNF.Data2004(toDelete,:) = [];

YearlyDataNF.Data2005=NewData;

toDelete = NewData.yr ~= 2005;

YearlyDataNF.Data2005(toDelete,:) = [];

YearlyDataNF.Data2006=NewData;

toDelete = NewData.yr ~= 2006;

YearlyDataNF.Data2006(toDelete,:) = [];

YearlyDataNF.Data2007=NewData;

toDelete = NewData.yr ~= 2007;

YearlyDataNF.Data2007(toDelete,:) = [];

YearlyDataNF.Data2008=NewData;

toDelete = NewData.yr ~= 2008;

YearlyDataNF.Data2008(toDelete,:) = [];

YearlyDataNF.Data2009=NewData;

toDelete = NewData.yr ~= 2009;

YearlyDataNF.Data2009(toDelete,:) = [];

YearlyDataNF.Data2010=NewData;

toDelete = NewData.yr ~= 2010;

YearlyDataNF.Data2010(toDelete,:) = [];

YearlyDataNF.Data2011=NewData;

toDelete = NewData.yr ~= 2011;

YearlyDataNF.Data2011(toDelete,:) = [];

YearlyDataNF.Data2012=NewData;

toDelete = NewData.yr ~= 2012;

YearlyDataNF.Data2012(toDelete,:) = [];

YearlyDataNF.Data2013=NewData;

toDelete = NewData.yr ~= 2013;

YearlyDataNF.Data2013(toDelete,:) = [];

YearlyDataNF.Data2014=NewData;

toDelete = NewData.yr ~= 2014;

YearlyDataNF.Data2014(toDelete,:) = [];

YearlyDataNF.Data2015=NewData;

toDelete = NewData.yr ~= 2015;

YearlyDataNF.Data2015(toDelete,:) = [];

clear toDelete

end %NoFamily

%% Statistic overview no family control 2000

toDelete = YearlyDataNF.Data2000.LargestFamilySumUltOwnership >= 50;

YearlyDataNF.Data2000(toDelete,:) = [];

toDelete = YearlyDataNF.Data2000.CompanyAge > 1;

YearlyDataNF.Data2000(toDelete,:) = [];

toDelete = YearlyDataNF.Data2000.IsIndependent < 1;

YearlyDataNF.Data2000(toDelete,:) = [];

toDelete = YearlyDataNF.Data2000.Revenue == 0;

YearlyDataNF.Data2000(toDelete,:) = [];

toDelete = YearlyDataNF.Data2000.NetIncome == 0;

YearlyDataNF.Data2000(toDelete,:) = [];

toDelete = YearlyDataNF.Data2000.NumberOfEmployees == 0;

YearlyDataNF.Data2000(toDelete,:) = [];

toDelete = YearlyDataNF.Data2000.TotalAssets == 0;

YearlyDataNF.Data2000(toDelete,:) = [];

%% Statistic overview no family control 2001

idlist = YearlyDataNF.Data2000.pcid;

Data2001Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2001);

for k=1:length(idlist)

if YearlyDataNF.Data2001.pcid(i) == idlist(k)

Data2001Temp(s,:) = YearlyDataNF.Data2001(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2001 = Data2001Temp;

clear Data2001Temp

%% Statistic overview no family control 2002

idlist = YearlyDataNF.Data2001.pcid;

Data2002Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2002);

for k=1:length(idlist)

if YearlyDataNF.Data2002.pcid(i) == idlist(k)

Data2002Temp(s,:) = YearlyDataNF.Data2002(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2002 = Data2002Temp;

clear Data2002Temp

%% Statistic overview no family control 2003

idlist = YearlyDataNF.Data2002.pcid;

Data2003Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2003);

for k=1:length(idlist)

if YearlyDataNF.Data2003.pcid(i) == idlist(k)

Data2003Temp(s,:) = YearlyDataNF.Data2003(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2003 = Data2003Temp;

clear Data2003Temp

%% Statistic overview no family control 2004

idlist = YearlyDataNF.Data2003.pcid;

Data2004Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2004);

for k=1:length(idlist)

if YearlyDataNF.Data2004.pcid(i) == idlist(k)

Data2004Temp(s,:) = YearlyDataNF.Data2004(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2004 = Data2004Temp;

clear Data2004Temp

%% Statistic overview no family control 2005

idlist = YearlyDataNF.Data2004.pcid;

Data2005Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2005);

for k=1:length(idlist)

if YearlyDataNF.Data2005.pcid(i) == idlist(k)

Data2005Temp(s,:) = YearlyDataNF.Data2005(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2005 = Data2005Temp;

clear Data2005Temp

%% Statistic overview no family control 2006

idlist = YearlyDataNF.Data2005.pcid;

Data2006Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2006);

for k=1:length(idlist)

if YearlyDataNF.Data2006.pcid(i) == idlist(k)

Data2006Temp(s,:) = YearlyDataNF.Data2006(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2006 = Data2006Temp;

clear Data2006Temp

%% Statistic overview no family control 2007

idlist = YearlyDataNF.Data2006.pcid;

Data2007Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2007);

for k=1:length(idlist)

if YearlyDataNF.Data2007.pcid(i) == idlist(k)

Data2007Temp(s,:) = YearlyDataNF.Data2007(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2007 = Data2007Temp;

clear Data2007Temp

%% Statistic overview no family control 2008

idlist = YearlyDataNF.Data2007.pcid;

Data2008Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2008);

for k=1:length(idlist)

if YearlyDataNF.Data2008.pcid(i) == idlist(k)

Data2008Temp(s,:) = YearlyDataNF.Data2008(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2008 = Data2008Temp;

clear Data2008Temp

%% Statistic overview no family control 2009

idlist = YearlyDataNF.Data2008.pcid;

Data2009Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2009);

for k=1:length(idlist)

if YearlyDataNF.Data2009.pcid(i) == idlist(k)

Data2009Temp(s,:) = YearlyDataNF.Data2009(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2009 = Data2009Temp;

clear Data2009Temp

%% Statistic overview no family control 2010

idlist = YearlyDataNF.Data2009.pcid;

Data2010Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2010);

for k=1:length(idlist)

if YearlyDataNF.Data2010.pcid(i) == idlist(k)

Data2010Temp(s,:) = YearlyDataNF.Data2010(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2010 = Data2010Temp;

clear Data2010Temp

%% Statistic overview no family control 2011

idlist = YearlyDataNF.Data2010.pcid;

Data2011Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2011);

for k=1:length(idlist)

if YearlyDataNF.Data2011.pcid(i) == idlist(k)

Data2011Temp(s,:) = YearlyDataNF.Data2011(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2011 = Data2011Temp;

clear Data2011Temp

%% Statistic overview no family control 2012

idlist = YearlyDataNF.Data2011.pcid;

Data2012Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2012);

for k=1:length(idlist)

if YearlyDataNF.Data2012.pcid(i) == idlist(k)

Data2012Temp(s,:) = YearlyDataNF.Data2012(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2012 = Data2012Temp;

clear Data2012Temp

%% Statistic overview no family control 2013

idlist = YearlyDataNF.Data2012.pcid;

Data2013Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2013);

for k=1:length(idlist)

if YearlyDataNF.Data2013.pcid(i) == idlist(k)

Data2013Temp(s,:) = YearlyDataNF.Data2013(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2013 = Data2013Temp;

clear Data2013Temp

%% Statistic overview no family control 2014

idlist = YearlyDataNF.Data2013.pcid;

Data2014Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2014);

for k=1:length(idlist)

if YearlyDataNF.Data2014.pcid(i) == idlist(k)

Data2014Temp(s,:) = YearlyDataNF.Data2014(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2014 = Data2014Temp;

clear Data2014Temp

%% Statistic overview no family control 2015

idlist = YearlyDataNF.Data2014.pcid;

Data2015Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyDataNF.Data2015);

for k=1:length(idlist)

if YearlyDataNF.Data2015.pcid(i) == idlist(k)

Data2015Temp(s,:) = YearlyDataNF.Data2015(i,:);

s=s+1;

end

end

end

YearlyDataNF.Data2015 = Data2015Temp;

clear Data2015Temp

%% Export to excel

writetable(YearlyData.Data2000,'Data2000.xlsx')

writetable(YearlyData.Data2001,'Data2001.xlsx')

writetable(YearlyData.Data2002,'Data2002.xlsx')

writetable(YearlyData.Data2003,'Data2003.xlsx')

writetable(YearlyData.Data2004,'Data2004.xlsx')

writetable(YearlyData.Data2005,'Data2005.xlsx')

writetable(YearlyData.Data2006,'Data2006.xlsx')

writetable(YearlyData.Data2007,'Data2007.xlsx')

writetable(YearlyData.Data2008,'Data2008.xlsx')

writetable(YearlyData.Data2009,'Data2009.xlsx')

writetable(YearlyData.Data2010,'Data2010.xlsx')

writetable(YearlyData.Data2011,'Data2011.xlsx')

writetable(YearlyData.Data2012,'Data2012.xlsx')

writetable(YearlyData.Data2013,'Data2013.xlsx')

writetable(YearlyData.Data2014,'Data2014.xlsx')

writetable(YearlyData.Data2015,'Data2015.xlsx')

writetable(YearlyDataNF.Data2000,'Data2000NF.xlsx')

writetable(YearlyDataNF.Data2001,'Data2001NF.xlsx')

writetable(YearlyDataNF.Data2002,'Data2002NF.xlsx')

writetable(YearlyDataNF.Data2003,'Data2003NF.xlsx')

writetable(YearlyDataNF.Data2004,'Data2004NF.xlsx')

writetable(YearlyDataNF.Data2005,'Data2005NF.xlsx')

writetable(YearlyDataNF.Data2006,'Data2006NF.xlsx')

writetable(YearlyDataNF.Data2007,'Data2007NF.xlsx')

writetable(YearlyDataNF.Data2008,'Data2008NF.xlsx')

writetable(YearlyDataNF.Data2009,'Data2009NF.xlsx')

writetable(YearlyDataNF.Data2010,'Data2010NF.xlsx')

writetable(YearlyDataNF.Data2011,'Data2011NF.xlsx')

writetable(YearlyDataNF.Data2012,'Data2012NF.xlsx')

writetable(YearlyDataNF.Data2013,'Data2013NF.xlsx')

writetable(YearlyDataNF.Data2014,'Data2014NF.xlsx')

writetable(YearlyDataNF.Data2015,'Data2015NF.xlsx')

%% Master Thesis Part 2

%Setup

clc

clear all

%Import files

Data.Data2000 = readtable('Data2000.xlsx');

Data.Data2001 = readtable('Data2001.xlsx');

Data.Data2002 = readtable('Data2002.xlsx');

Data.Data2003 = readtable('Data2003.xlsx');

Data.Data2004 = readtable('Data2004.xlsx');

Data.Data2005 = readtable('Data2005.xlsx');

Data.Data2006 = readtable('Data2006.xlsx');

Data.Data2007 = readtable('Data2007.xlsx');

Data.Data2008 = readtable('Data2008.xlsx');

Data.Data2009 = readtable('Data2009.xlsx');

Data.Data2010 = readtable('Data2010.xlsx');

Data.Data2011 = readtable('Data2011.xlsx');

Data.Data2012 = readtable('Data2012.xlsx');

Data.Data2013 = readtable('Data2013.xlsx');

Data.Data2014 = readtable('Data2014.xlsx');

Data.Data2015 = readtable('Data2015.xlsx');

DataNF.Data2000NF = readtable('Data2000NF.xlsx');

DataNF.Data2001NF = readtable('Data2001NF.xlsx');

DataNF.Data2002NF = readtable('Data2002NF.xlsx');

DataNF.Data2003NF = readtable('Data2003NF.xlsx');

DataNF.Data2004NF = readtable('Data2004NF.xlsx');

DataNF.Data2005NF = readtable('Data2005NF.xlsx');

DataNF.Data2006NF = readtable('Data2006NF.xlsx');

DataNF.Data2007NF = readtable('Data2007NF.xlsx');

DataNF.Data2008NF = readtable('Data2008NF.xlsx');

DataNF.Data2009NF = readtable('Data2009NF.xlsx');

DataNF.Data2010NF = readtable('Data2010NF.xlsx');

DataNF.Data2011NF = readtable('Data2011NF.xlsx');

DataNF.Data2012NF = readtable('Data2012NF.xlsx');

DataNF.Data2013NF = readtable('Data2013NF.xlsx');

DataNF.Data2014NF = readtable('Data2014NF.xlsx');

DataNF.Data2015NF = readtable('Data2015NF.xlsx');

%% Removing extremevalues for variable ROE

OutliersROE2000NF = rmoutliers(DataNF.Data2000NF.ROE,'percentiles',[10 90]);

OutliersROE2001NF = rmoutliers(DataNF.Data2001NF.ROE,'percentiles',[10 90]);

OutliersROE2002NF = rmoutliers(DataNF.Data2002NF.ROE,'percentiles',[10 90]);

OutliersROE2008NF = rmoutliers(DataNF.Data2002NF.ROE,'percentiles',[10 90]);

OutliersROE2000 = rmoutliers(Data.Data2000.ROE,'percentiles',[10 90]);

OutliersROE2001 = rmoutliers(Data.Data2001.ROE,'percentiles',[10 90]);

OutliersROE2002 = rmoutliers(Data.Data2002.ROE,'percentiles',[10 90]);

OutliersROE2005 = rmoutliers(Data.Data2005.ROE,'percentiles',[10 90]);

OutliersROE2011 = rmoutliers(Data.Data2011.ROE,'percentiles',[10 90]);

OutliersROE2013 = rmoutliers(Data.Data2013.ROE,'percentiles',[10 90]);

%% Total assets table

TotalAssetsTable = table;

TotalAssetsTable.Year(1) = 2000;

TotalAssetsTable.Year(2) = 2001;

TotalAssetsTable.Year(3) = 2002;

TotalAssetsTable.Year(4) = 2003;

TotalAssetsTable.Year(5) = 2004;

TotalAssetsTable.Year(6) = 2005;

TotalAssetsTable.Year(7) = 2006;

TotalAssetsTable.Year(8) = 2007;

TotalAssetsTable.Year(9) = 2008;

TotalAssetsTable.Year(10) = 2009;

TotalAssetsTable.Year(11) = 2010;

TotalAssetsTable.Year(12) = 2011;

TotalAssetsTable.Year(13) = 2012;

TotalAssetsTable.Year(14) = 2013;

TotalAssetsTable.Year(15) = 2014;

TotalAssetsTable.Year(16) = 2015;

TotalAssetsTable.TotalAssetsFamilyFirm(1) = mean(Data.Data2000.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(2) = mean(Data.Data2001.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(3) = mean(Data.Data2002.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(4) = mean(Data.Data2003.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(5) = mean(Data.Data2004.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(6) = mean(Data.Data2005.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(7) = mean(Data.Data2006.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(8) = mean(Data.Data2007.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(9) = mean(Data.Data2008.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(10) = mean(Data.Data2009.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(11) = mean(Data.Data2010.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(12) = mean(Data.Data2011.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(13) = mean(Data.Data2012.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(14) = mean(Data.Data2013.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(15) = mean(Data.Data2014.TotalAssets);

TotalAssetsTable.TotalAssetsFamilyFirm(16) = mean(Data.Data2015.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(1) = mean(DataNF.Data2000NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(2) = mean(DataNF.Data2001NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(3) = mean(DataNF.Data2002NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(4) = mean(DataNF.Data2003NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(5) = mean(DataNF.Data2004NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(6) = mean(DataNF.Data2005NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(7) = mean(DataNF.Data2006NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(8) = mean(DataNF.Data2007NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(9) = mean(DataNF.Data2008NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(10) = mean(DataNF.Data2009NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(11) = mean(DataNF.Data2010NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(12) = mean(DataNF.Data2011NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(13) = mean(DataNF.Data2012NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(14) = mean(DataNF.Data2013NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(15) = mean(DataNF.Data2014NF.TotalAssets);

TotalAssetsTable.TotalAssetsNonFamilyFirm(16) = mean(DataNF.Data2015NF.TotalAssets);

%% Import table to EXCEL

writetable(TotalAssetsTable,'TotalAssetsTable.xlsx');

%% Descriptive table

DescriptiveTable = table;

DescriptiveTable.Year(1) = 2000;

DescriptiveTable.Year(2) = 2001;

DescriptiveTable.Year(3) = 2002;

DescriptiveTable.Year(4) = 2003;

DescriptiveTable.Year(5) = 2004;

DescriptiveTable.Year(6) = 2005;

DescriptiveTable.Year(7) = 2006;

DescriptiveTable.Year(8) = 2007;

DescriptiveTable.Year(9) = 2008;

DescriptiveTable.Year(10) = 2009;

DescriptiveTable.Year(11) = 2010;

DescriptiveTable.Year(12) = 2011;

DescriptiveTable.Year(13) = 2012;

DescriptiveTable.Year(14) = 2013;

DescriptiveTable.Year(15) = 2014;

DescriptiveTable.Year(16) = 2015;

DescriptiveTable.NoOfFirms(1) = height(Data.Data2000);

DescriptiveTable.NoOfFirms(2) = height(Data.Data2001);

DescriptiveTable.NoOfFirms(3) = height(Data.Data2002);

DescriptiveTable.NoOfFirms(4) = height(Data.Data2003);

DescriptiveTable.NoOfFirms(5) = height(Data.Data2004);

DescriptiveTable.NoOfFirms(6) = height(Data.Data2005);

DescriptiveTable.NoOfFirms(7) = height(Data.Data2006);

DescriptiveTable.NoOfFirms(8) = height(Data.Data2007);

DescriptiveTable.NoOfFirms(9) = height(Data.Data2008);

DescriptiveTable.NoOfFirms(10) = height(Data.Data2009);

DescriptiveTable.NoOfFirms(11) = height(Data.Data2010);

DescriptiveTable.NoOfFirms(12) = height(Data.Data2011);

DescriptiveTable.NoOfFirms(13) = height(Data.Data2012);

DescriptiveTable.NoOfFirms(14) = height(Data.Data2013);

DescriptiveTable.NoOfFirms(15) = height(Data.Data2014);

DescriptiveTable.NoOfFirms(16) = height(Data.Data2015);

DescriptiveTable.OwnershipShare(1) = mean(Data.Data2000.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(2) = mean(Data.Data2001.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(3) = mean(Data.Data2002.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(4) = mean(Data.Data2003.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(5) = mean(Data.Data2004.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(6) = mean(Data.Data2005.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(7) = mean(Data.Data2006.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(8) = mean(Data.Data2007.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(9) = mean(Data.Data2008.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(10) = mean(Data.Data2009.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(11) = mean(Data.Data2010.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(12) = mean(Data.Data2011.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(13) = mean(Data.Data2012.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(14) = mean(Data.Data2013.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(15) = mean(Data.Data2014.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(16) = mean(Data.Data2015.LargestFamilySumUltOwnership);

DescriptiveTable.FamilyCEO(1) = mean(Data.Data2000.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(2) = mean(Data.Data2001.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(3) = mean(Data.Data2002.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(4) = mean(Data.Data2003.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(5) = mean(Data.Data2004.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(6) = mean(Data.Data2005.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(7) = mean(Data.Data2006.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(8) = mean(Data.Data2007.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(9) = mean(Data.Data2008.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(10) = mean(Data.Data2009.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(11) = mean(Data.Data2010.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(12) = mean(Data.Data2011.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(13) = mean(Data.Data2012.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(14) = mean(Data.Data2013.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(15) = mean(Data.Data2014.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(16) = mean(Data.Data2015.LargestFamilyHasCEO);

%% Characteristics table

CharacteristicsTable = table;

CharacteristicsTable.Year(1) = 2000;

CharacteristicsTable.Year(2) = 2001;

CharacteristicsTable.Year(3) = 2002;

CharacteristicsTable.Year(4) = 2003;

CharacteristicsTable.Year(5) = 2004;

CharacteristicsTable.Year(6) = 2005;

CharacteristicsTable.Year(7) = 2006;

CharacteristicsTable.Year(8) = 2007;

CharacteristicsTable.Year(9) = 2008;

CharacteristicsTable.Year(10) = 2009;

CharacteristicsTable.Year(11) = 2010;

CharacteristicsTable.Year(12) = 2011;

CharacteristicsTable.Year(13) = 2012;

CharacteristicsTable.Year(14) = 2013;

CharacteristicsTable.Year(15) = 2014;

CharacteristicsTable.Year(16) = 2015;

CharacteristicsTable.NoOfOwners(1) = mean(Data.Data2000.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(2) = mean(Data.Data2001.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(3) = mean(Data.Data2002.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(4) = mean(Data.Data2003.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(5) = mean(Data.Data2004.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(6) = mean(Data.Data2005.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(7) = mean(Data.Data2006.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(8) = mean(Data.Data2007.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(9) = mean(Data.Data2008.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(10) = mean(Data.Data2009.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(11) = mean(Data.Data2010.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(12) = mean(Data.Data2011.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(13) = mean(Data.Data2012.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(14) = mean(Data.Data2013.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(15) = mean(Data.Data2014.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(16) = mean(Data.Data2015.LargestFamilyNumberOfOwners);

CharacteristicsTable.TotalPaidinCapital(1) = mean(Data.Data2000.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(2) = mean(Data.Data2001.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(3) = mean(Data.Data2002.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(4) = mean(Data.Data2003.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(5) = mean(Data.Data2004.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(6) = mean(Data.Data2005.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(7) = mean(Data.Data2006.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(8) = mean(Data.Data2007.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(9) = mean(Data.Data2008.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(10) = mean(Data.Data2009.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(11) = mean(Data.Data2010.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(12) = mean(Data.Data2011.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(13) = mean(Data.Data2012.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(14) = mean(Data.Data2013.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(15) = mean(Data.Data2014.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(16) = mean(Data.Data2015.TotalPaidinCapital);

CharacteristicsTable.CEOSalary(1) = mean(Data.Data2000.CEOSalary);

CharacteristicsTable.CEOSalary(2) = mean(Data.Data2001.CEOSalary);

CharacteristicsTable.CEOSalary(3) = mean(Data.Data2002.CEOSalary);

CharacteristicsTable.CEOSalary(4) = mean(Data.Data2003.CEOSalary);

CharacteristicsTable.CEOSalary(5) = mean(Data.Data2004.CEOSalary);

CharacteristicsTable.CEOSalary(6) = mean(Data.Data2005.CEOSalary);

CharacteristicsTable.CEOSalary(7) = mean(Data.Data2006.CEOSalary);

CharacteristicsTable.CEOSalary(8) = mean(Data.Data2007.CEOSalary);

CharacteristicsTable.CEOSalary(9) = mean(Data.Data2008.CEOSalary);

CharacteristicsTable.CEOSalary(10) = mean(Data.Data2009.CEOSalary);

CharacteristicsTable.CEOSalary(11) = mean(Data.Data2010.CEOSalary);

CharacteristicsTable.CEOSalary(12) = mean(Data.Data2011.CEOSalary);

CharacteristicsTable.CEOSalary(13) = mean(Data.Data2012.CEOSalary);

CharacteristicsTable.CEOSalary(14) = mean(Data.Data2013.CEOSalary);

CharacteristicsTable.CEOSalary(15) = mean(Data.Data2014.CEOSalary);

CharacteristicsTable.CEOSalary(16) = mean(Data.Data2015.CEOSalary);

CharacteristicsTable.Dividends(1) = mean(Data.Data2000.DividendsPayable);

CharacteristicsTable.Dividends(2) = mean(Data.Data2001.DividendsPayable);

CharacteristicsTable.Dividends(3) = mean(Data.Data2002.DividendsPayable);

CharacteristicsTable.Dividends(4) = mean(Data.Data2003.DividendsPayable);

CharacteristicsTable.Dividends(5) = mean(Data.Data2004.DividendsPayable);

CharacteristicsTable.Dividends(6) = mean(Data.Data2005.DividendsPayable);

CharacteristicsTable.Dividends(7) = mean(Data.Data2006.DividendsPayable);

CharacteristicsTable.Dividends(8) = mean(Data.Data2007.DividendsPayable);

CharacteristicsTable.Dividends(9) = mean(Data.Data2008.DividendsPayable);

CharacteristicsTable.Dividends(10) = mean(Data.Data2009.DividendsPayable);

CharacteristicsTable.Dividends(11) = mean(Data.Data2010.DividendsPayable);

CharacteristicsTable.Dividends(12) = mean(Data.Data2011.DividendsPayable);

CharacteristicsTable.Dividends(13) = mean(Data.Data2012.DividendsPayable);

CharacteristicsTable.Dividends(14) = mean(Data.Data2013.DividendsPayable);

CharacteristicsTable.Dividends(15) = mean(Data.Data2014.DividendsPayable);

CharacteristicsTable.Dividends(16) = mean(Data.Data2015.DividendsPayable);

CharacteristicsTable.Revenue(1) = mean(Data.Data2000.Revenue);

CharacteristicsTable.Revenue(2) = mean(Data.Data2001.Revenue);

CharacteristicsTable.Revenue(3) = mean(Data.Data2002.Revenue);

CharacteristicsTable.Revenue(4) = mean(Data.Data2003.Revenue);

CharacteristicsTable.Revenue(5) = mean(Data.Data2004.Revenue);

CharacteristicsTable.Revenue(6) = mean(Data.Data2005.Revenue);

CharacteristicsTable.Revenue(7) = mean(Data.Data2006.Revenue);

CharacteristicsTable.Revenue(8) = mean(Data.Data2007.Revenue);

CharacteristicsTable.Revenue(9) = mean(Data.Data2008.Revenue);

CharacteristicsTable.Revenue(10) = mean(Data.Data2009.Revenue);

CharacteristicsTable.Revenue(11) = mean(Data.Data2010.Revenue);

CharacteristicsTable.Revenue(12) = mean(Data.Data2011.Revenue);

CharacteristicsTable.Revenue(13) = mean(Data.Data2012.Revenue);

CharacteristicsTable.Revenue(14) = mean(Data.Data2013.Revenue);

CharacteristicsTable.Revenue(15) = mean(Data.Data2014.Revenue);

CharacteristicsTable.Revenue(16) = mean(Data.Data2015.Revenue);

CharacteristicsTable.ROA(1) = mean(Data.Data2000.ROA);

CharacteristicsTable.ROA(2) = mean(Data.Data2001.ROA);

CharacteristicsTable.ROA(3) = mean(Data.Data2002.ROA);

CharacteristicsTable.ROA(4) = mean(Data.Data2003.ROA);

CharacteristicsTable.ROA(5) = mean(Data.Data2004.ROA);

CharacteristicsTable.ROA(6) = mean(Data.Data2005.ROA);

CharacteristicsTable.ROA(7) = mean(Data.Data2006.ROA);

CharacteristicsTable.ROA(8) = mean(Data.Data2007.ROA);

CharacteristicsTable.ROA(9) = mean(Data.Data2008.ROA);

CharacteristicsTable.ROA(10) = mean(Data.Data2009.ROA);

CharacteristicsTable.ROA(11) = mean(Data.Data2010.ROA);

CharacteristicsTable.ROA(12) = mean(Data.Data2011.ROA);

CharacteristicsTable.ROA(13) = mean(Data.Data2012.ROA);

CharacteristicsTable.ROA(14) = mean(Data.Data2013.ROA);

CharacteristicsTable.ROA(15) = mean(Data.Data2014.ROA);

CharacteristicsTable.ROA(16) = mean(Data.Data2015.ROA);

CharacteristicsTable.ROE(1) = mean(OutliersROE2000);

CharacteristicsTable.ROE(2) = mean(OutliersROE2001);

CharacteristicsTable.ROE(3) = mean(OutliersROE2002);

CharacteristicsTable.ROE(4) = mean(Data.Data2003.ROE);

CharacteristicsTable.ROE(5) = mean(Data.Data2004.ROE);

CharacteristicsTable.ROE(6) = mean(OutliersROE2005);

CharacteristicsTable.ROE(7) = mean(Data.Data2006.ROE);

CharacteristicsTable.ROE(8) = mean(Data.Data2007.ROE);

CharacteristicsTable.ROE(9) = mean(Data.Data2008.ROE);

CharacteristicsTable.ROE(10) = mean(Data.Data2009.ROE);

CharacteristicsTable.ROE(11) = mean(Data.Data2010.ROE);

CharacteristicsTable.ROE(12) = mean(OutliersROE2011);

CharacteristicsTable.ROE(13) = mean(Data.Data2012.ROE);

CharacteristicsTable.ROE(14) = mean(OutliersROE2013);

CharacteristicsTable.ROE(15) = mean(Data.Data2014.ROE);

CharacteristicsTable.ROE(16) = mean(Data.Data2015.ROE);

CharacteristicsTable.NumberOfEmployees(1) = mean(Data.Data2000.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(2) = mean(Data.Data2001.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(3) = mean(Data.Data2002.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(4) = mean(Data.Data2003.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(5) = mean(Data.Data2004.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(6) = mean(Data.Data2005.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(7) = mean(Data.Data2006.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(8) = mean(Data.Data2007.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(9) = mean(Data.Data2008.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(10) = mean(Data.Data2009.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(11) = mean(Data.Data2010.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(12) = mean(Data.Data2011.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(13) = mean(Data.Data2012.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(14) = mean(Data.Data2013.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(15) = mean(Data.Data2014.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(16) = mean(Data.Data2015.NumberOfEmployees);

%% Import table to EXCEL

writetable(CharacteristicsTable,'CharacteristicsTable.xlsx')

%% Top Decile 2000

Data.Data2000 = sortrows(Data.Data2000,'Revenue','descend');

Third = round(height(Data.Data2000)./3);

DataTop.Data2000 = Data.Data2000(1:Third,:);

%% Mid Decile 2000

CutoffTop = round(height(Data.Data2000)./3);

TwoThird = Third\*2;

DataMid.Data2000 = Data.Data2000(Third:TwoThird,:);

%% Bottom Decile 2000

DataBottom.Data2000 = Data.Data2000(TwoThird:end,:);

%% Top Decile 2001

Data.Data2001 = sortrows(Data.Data2001,'Revenue','descend');

Third = round(height(Data.Data2001)./3);

DataTop.Data2001 = Data.Data2001(1:Third,:);

%% Mid Decile 2001

CutoffTop = round(height(Data.Data2001)./3);

TwoThird = Third\*2;

DataMid.Data2001 = Data.Data2001(Third:TwoThird,:);

%% Bottom Decile 2001

DataBottom.Data2001 = Data.Data2001(TwoThird:end,:);

%% Top Decile 2002

Data.Data2002 = sortrows(Data.Data2002,'Revenue','descend');

Third = round(height(Data.Data2002)./3);

DataTop.Data2002 = Data.Data2002(1:Third,:);

%% Mid Decile 2002

CutoffTop = round(height(Data.Data2002)./3);

TwoThird = Third\*2;

DataMid.Data2002 = Data.Data2002(Third:TwoThird,:);

%% Bottom Decile 2002

DataBottom.Data2002 = Data.Data2002(TwoThird:end,:);

%% Top Decile 2003

Data.Data2003 = sortrows(Data.Data2003,'Revenue','descend');

Third = round(height(Data.Data2003)./3);

DataTop.Data2003 = Data.Data2003(1:Third,:);

%% Mid Decile 2003

CutoffTop = round(height(Data.Data2003)./3);

TwoThird = Third\*2;

DataMid.Data2003 = Data.Data2003(Third:TwoThird,:);

%% Bottom Decile 2003

DataBottom.Data2003 = Data.Data2003(TwoThird:end,:);

%% Top Decile 2004

Data.Data2004 = sortrows(Data.Data2004,'Revenue','descend');

Third = round(height(Data.Data2004)./3);

DataTop.Data2004 = Data.Data2004(1:Third,:);

%% Mid Decile 2004

CutoffTop = round(height(Data.Data2004)./3);

TwoThird = Third\*2;

DataMid.Data2004 = Data.Data2004(Third:TwoThird,:);

%% Bottom Decile 2004

DataBottom.Data2004 = Data.Data2004(TwoThird:end,:);

%% Top Decile 2005

Data.Data2005 = sortrows(Data.Data2005,'Revenue','descend');

Third = round(height(Data.Data2005)./3);

DataTop.Data2005 = Data.Data2005(1:Third,:);

%% Mid Decile 2005

CutoffTop = round(height(Data.Data2005)./3);

TwoThird = Third\*2;

DataMid.Data2005 = Data.Data2005(Third:TwoThird,:);

%% Bottom Decile 2005

DataBottom.Data2005 = Data.Data2005(TwoThird:end,:);

%% Top Decile 2006

Data.Data2006 = sortrows(Data.Data2006,'Revenue','descend');

Third = round(height(Data.Data2006)./3);

DataTop.Data2006 = Data.Data2006(1:Third,:);

%% Mid Decile 2006

CutoffTop = round(height(Data.Data2006)./3);

TwoThird = Third\*2;

DataMid.Data2006 = Data.Data2006(Third:TwoThird,:);

%% Bottom Decile 2006

DataBottom.Data2006 = Data.Data2006(TwoThird:end,:);

%% Top Decile 2007

Data.Data2007 = sortrows(Data.Data2007,'Revenue','descend');

Third = round(height(Data.Data2007)./3);

DataTop.Data2007 = Data.Data2007(1:Third,:);

%% Mid Decile 2007

CutoffTop = round(height(Data.Data2007)./3);

TwoThird = Third\*2;

DataMid.Data2007 = Data.Data2007(Third:TwoThird,:);

%% Bottom Decile 2007

DataBottom.Data2007 = Data.Data2007(TwoThird:end,:);

%% Top Decile 2008

Data.Data2008 = sortrows(Data.Data2008,'Revenue','descend');

Third = round(height(Data.Data2008)./3);

DataTop.Data2008 = Data.Data2008(1:Third,:);

%% Mid Decile 2008

CutoffTop = round(height(Data.Data2008)./3);

TwoThird = Third\*2;

DataMid.Data2008 = Data.Data2008(Third:TwoThird,:);

%% Bottom Decile 2008

DataBottom.Data2008 = Data.Data2008(TwoThird:end,:);

%% Top Decile 2009

Data.Data2000 = sortrows(Data.Data2009,'Revenue','descend');

Third = round(height(Data.Data2009)./3);

DataTop.Data2009 = Data.Data2009(1:Third,:);

%% Mid Decile 2009

CutoffTop = round(height(Data.Data2009)./3);

TwoThird = Third\*2;

DataMid.Data2009 = Data.Data2009(Third:TwoThird,:);

%% Bottom Decile 2009

DataBottom.Data2009 = Data.Data2009(TwoThird:end,:);

%% Top Decile 2010

Data.Data2010 = sortrows(Data.Data2010,'Revenue','descend');

Third = round(height(Data.Data2010)./3);

DataTop.Data2010 = Data.Data2010(1:Third,:);

%% Mid Decile 2010

CutoffTop = round(height(Data.Data2010)./3);

TwoThird = Third\*2;

DataMid.Data2010 = Data.Data2010(Third:TwoThird,:);

%% Bottom Decile 2010

DataBottom.Data2010 = Data.Data2010(TwoThird:end,:);

%% Top Decile 2011

Data.Data2011 = sortrows(Data.Data2011,'Revenue','descend');

Third = round(height(Data.Data2011)./3);

DataTop.Data2011 = Data.Data2011(1:Third,:);

%% Mid Decile 2011

CutoffTop = round(height(Data.Data2011)./3);

TwoThird = Third\*2;

DataMid.Data2011 = Data.Data2011(Third:TwoThird,:);

%% Bottom Decile 2011

DataBottom.Data2011 = Data.Data2011(TwoThird:end,:);

%% Top Decile 2012

Data.Data2012 = sortrows(Data.Data2012,'Revenue','descend');

Third = round(height(Data.Data2012)./3);

DataTop.Data2012 = Data.Data2012(1:Third,:);

%% Mid Decile 2012

CutoffTop = round(height(Data.Data2012)./3);

TwoThird = Third\*2;

DataMid.Data2012 = Data.Data2012(Third:TwoThird,:);

%% Bottom Decile 2012

DataBottom.Data2012 = Data.Data2012(TwoThird:end,:);

%% Top Decile 2013

Data.Data2013 = sortrows(Data.Data2013,'Revenue','descend');

Third = round(height(Data.Data2013)./3);

DataTop.Data2013 = Data.Data2013(1:Third,:);

%% Mid Decile 2013

CutoffTop = round(height(Data.Data2013)./3);

TwoThird = Third\*2;

DataMid.Data2013 = Data.Data2013(Third:TwoThird,:);

%% Bottom Decile 2013

DataBottom.Data2013 = Data.Data2013(TwoThird:end,:);

%% Top Decile 2014

Data.Data2014 = sortrows(Data.Data2014,'Revenue','descend');

Third = round(height(Data.Data2014)./3);

DataTop.Data2014 = Data.Data2014(1:Third,:);

%% Mid Decile 2014

CutoffTop = round(height(Data.Data2014)./3);

TwoThird = Third\*2;

DataMid.Data2014 = Data.Data2014(Third:TwoThird,:);

%% Bottom Decile 2014

DataBottom.Data2014 = Data.Data2014(TwoThird:end,:);

%% Top Decile 2015

Data.Data2015 = sortrows(Data.Data2015,'Revenue','descend');

Third = round(height(Data.Data2015)./3);

DataTop.Data2015 = Data.Data2015(1:Third,:);

%% Mid Decile 2015

CutoffTop = round(height(Data.Data2015)./3);

TwoThird = Third\*2;

DataMid.Data2015 = Data.Data2015(Third:TwoThird,:);

%% Bottom Decile 2015

DataBottom.Data2015 = Data.Data2015(TwoThird:end,:);

%% Descriptive table

DescriptiveTable.BottomDecileShare(1) = mean(DataBottom.Data2000.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(2) = mean(DataBottom.Data2001.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(3) = mean(DataBottom.Data2002.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(4) = mean(DataBottom.Data2003.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(5) = mean(DataBottom.Data2004.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(6) = mean(DataBottom.Data2005.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(7) = mean(DataBottom.Data2006.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(8) = mean(DataBottom.Data2007.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(9) = mean(DataBottom.Data2008.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(10) = mean(DataBottom.Data2009.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(11) = mean(DataBottom.Data2010.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(12) = mean(DataBottom.Data2011.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(13) = mean(DataBottom.Data2012.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(14) = mean(DataBottom.Data2013.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(15) = mean(DataBottom.Data2014.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(16) = mean(DataBottom.Data2015.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(1) = mean(DataMid.Data2000.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(2) = mean(DataMid.Data2001.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(3) = mean(DataMid.Data2002.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(4) = mean(DataMid.Data2003.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(5) = mean(DataMid.Data2004.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(6) = mean(DataMid.Data2005.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(7) = mean(DataMid.Data2006.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(8) = mean(DataMid.Data2007.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(9) = mean(DataMid.Data2008.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(10) = mean(DataMid.Data2009.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(11) = mean(DataMid.Data2010.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(12) = mean(DataMid.Data2011.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(13) = mean(DataMid.Data2012.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(14) = mean(DataMid.Data2013.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(15) = mean(DataMid.Data2014.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(16) = mean(DataMid.Data2015.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(1) = mean(DataTop.Data2000.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(2) = mean(DataTop.Data2001.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(3) = mean(DataTop.Data2002.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(4) = mean(DataTop.Data2003.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(5) = mean(DataTop.Data2004.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(6) = mean(DataTop.Data2005.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(7) = mean(DataTop.Data2006.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(8) = mean(DataTop.Data2007.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(9) = mean(DataTop.Data2008.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(10) = mean(DataTop.Data2009.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(11) = mean(DataTop.Data2010.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(12) = mean(DataTop.Data2011.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(13) = mean(DataTop.Data2012.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(14) = mean(DataTop.Data2013.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(15) = mean(DataTop.Data2014.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(16) = mean(DataTop.Data2015.LargestFamilySumUltOwnership);

%% Import table to EXCEL

writetable(DescriptiveTable,'DescriptiveTable.xlsx');

%% REG

ProfitabilityROA2010 = fitlm(Data.Data2010,'ROA~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners')

ProfitabilityROE2010 = fitlm(Data.Data2010,'ROE~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners')

GrowthRevenue2005 = fitlm(Data.Data2005,'Revenue~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners')

GrowthTotalAssets2005 = fitlm(Data.Data2005,'TotalAssets~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners')

GrowthNumberOfEmployees2005 = fitlm(Data.Data2005,'NumberOfEmployees~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners')

%% Survival analysis

FailureTime = table;

FailureTime.Var1(1,1) = 0;

FailureTime.Var1(2,1) = 1;

FailureTime.Var1(3) = 2;

FailureTime.Var1(4) = 3;

FailureTime.Var1(5) = 4;

FailureTime.Var1(6) = 5;

FailureTime.Var1(7) = 6;

FailureTime.Var1(8) = 7;

FailureTime.Var1(9) = 8;

FailureTime.Var1(10) = 9;

FailureTime.Var1(11) = 10;

FailureTime.Var1(12) = 11;

FailureTime.Var1(13) = 12;

FailureTime.Var1(14) = 13;

FailureTime.Var1(15) = 14;

FailureTime.Var1(16) = 15;

FailureTime = FailureTime.Var1;

Frequency = table;

Frequency.Var1(1,1) = 0;

Frequency.Var1(2,1) = 254;

Frequency.Var1(3) = 241;

Frequency.Var1(4) = 147;

Frequency.Var1(5) = 108;

Frequency.Var1(6) = 105;

Frequency.Var1(7) = 232;

Frequency.Var1(8) = 51;

Frequency.Var1(9) = 77;

Frequency.Var1(10) = 66;

Frequency.Var1(11) = 32;

Frequency.Var1(12) = 23;

Frequency.Var1(13) = 30;

Frequency.Var1(14) = 23;

Frequency.Var1(15) = 26;

Frequency.Var1(16) = 30;

Frequency = Frequency.Var1;

SurvivalTable = table(FailureTime, Frequency);

FailureTimeNF = table;

FailureTimeNF.Var1(1,1) = 0;

FailureTimeNF.Var1(2,1) = 1;

FailureTimeNF.Var1(3) = 2;

FailureTimeNF.Var1(4) = 3;

FailureTimeNF.Var1(5) = 4;

FailureTimeNF.Var1(6) = 5;

FailureTimeNF.Var1(7) = 6;

FailureTimeNF.Var1(8) = 7;

FailureTimeNF.Var1(9) = 8;

FailureTimeNF.Var1(10) = 9;

FailureTimeNF.Var1(11) = 10;

FailureTimeNF.Var1(12) = 11;

FailureTimeNF.Var1(13) = 12;

FailureTimeNF.Var1(14) = 13;

FailureTimeNF.Var1(15) = 14;

FailureTimeNF.Var1(16) = 15;

FailureTimeNF = FailureTimeNF.Var1;

FrequencyNF = table;

FrequencyNF.Var1(1,1) = 0;

FrequencyNF.Var1(2,1) = 169;

FrequencyNF.Var1(3) = 134;

FrequencyNF.Var1(4) = 71;

FrequencyNF.Var1(5) = 57;

FrequencyNF.Var1(6) = 49;

FrequencyNF.Var1(7) = 73;

FrequencyNF.Var1(8) = 36;

FrequencyNF.Var1(9) = 40;

FrequencyNF.Var1(10) = 28;

FrequencyNF.Var1(11) = 27;

FrequencyNF.Var1(12) = 14;

FrequencyNF.Var1(13) = 13;

FrequencyNF.Var1(14) = 11;

FrequencyNF.Var1(15) = 15;

FrequencyNF.Var1(16) = 16;

FrequencyNF = FrequencyNF.Var1;

SurvivalTableNF = table(FailureTimeNF, FrequencyNF);

%% Import table to EXCEL

writetable(SurvivalTable,'SurvivalTable.xlsx')

writetable(SurvivalTableNF,'SurvivalTableNF.xlsx')

%% Master Thesis Part 3

%Setup

clc

clear all

%Import files

Data.Data2000 = readtable('Data2000.xlsx');

Data.Data2001 = readtable('Data2001.xlsx');

Data.Data2002 = readtable('Data2002.xlsx');

Data.Data2003 = readtable('Data2003.xlsx');

Data.Data2004 = readtable('Data2004.xlsx');

Data.Data2005 = readtable('Data2005.xlsx');

Data.Data2006 = readtable('Data2006.xlsx');

Data.Data2007 = readtable('Data2007.xlsx');

Data.Data2008 = readtable('Data2008.xlsx');

Data.Data2009 = readtable('Data2009.xlsx');

Data.Data2010 = readtable('Data2010.xlsx');

Data.Data2011 = readtable('Data2011.xlsx');

Data.Data2012 = readtable('Data2012.xlsx');

Data.Data2013 = readtable('Data2013.xlsx');

Data.Data2014 = readtable('Data2014.xlsx');

Data.Data2015 = readtable('Data2015.xlsx');

DataNF.Data2000NF = readtable('Data2000NF.xlsx');

DataNF.Data2001NF = readtable('Data2001NF.xlsx');

DataNF.Data2002NF = readtable('Data2002NF.xlsx');

DataNF.Data2003NF = readtable('Data2003NF.xlsx');

DataNF.Data2004NF = readtable('Data2004NF.xlsx');

DataNF.Data2005NF = readtable('Data2005NF.xlsx');

DataNF.Data2006NF = readtable('Data2006NF.xlsx');

DataNF.Data2007NF = readtable('Data2007NF.xlsx');

DataNF.Data2008NF = readtable('Data2008NF.xlsx');

DataNF.Data2009NF = readtable('Data2009NF.xlsx');

DataNF.Data2010NF = readtable('Data2010NF.xlsx');

DataNF.Data2011NF = readtable('Data2011NF.xlsx');

DataNF.Data2012NF = readtable('Data2012NF.xlsx');

DataNF.Data2013NF = readtable('Data2013NF.xlsx');

DataNF.Data2014NF = readtable('Data2014NF.xlsx');

DataNF.Data2015NF = readtable('Data2015NF.xlsx');

%% Removing extremevalues for variable ROE

OutliersROE2000NF = rmoutliers(DataNF.Data2000NF.ROE,'percentiles',[10 90]);

OutliersROE2001NF = rmoutliers(DataNF.Data2001NF.ROE,'percentiles',[10 90]);

OutliersROE2002NF = rmoutliers(DataNF.Data2002NF.ROE,'percentiles',[10 90]);

OutliersROE2008NF = rmoutliers(DataNF.Data2002NF.ROE,'percentiles',[10 90]);

OutliersROE2005 = rmoutliers(Data.Data2005.ROE,'percentiles',[10 90]);

OutliersROE2011 = rmoutliers(Data.Data2011.ROE,'percentiles',[10 90]);

OutliersROE2013 = rmoutliers(Data.Data2013.ROE,'percentiles',[10 90]);

%% Total assets table

TotalAssetsTable = table;

TotalAssetsTable.Year(1) = 2000

TotalAssetsTable.Year(2) = 2001

TotalAssetsTable.Year(3) = 2002

TotalAssetsTable.Year(4) = 2003

TotalAssetsTable.Year(5) = 2004

TotalAssetsTable.Year(6) = 2005

TotalAssetsTable.Year(7) = 2006

TotalAssetsTable.Year(8) = 2007

TotalAssetsTable.Year(9) = 2008

TotalAssetsTable.Year(10) = 2009

TotalAssetsTable.Year(11) = 2010

TotalAssetsTable.Year(12) = 2011

TotalAssetsTable.Year(13) = 2012

TotalAssetsTable.Year(14) = 2013

TotalAssetsTable.Year(15) = 2014

TotalAssetsTable.Year(16) = 2015

TotalAssetsTable.TotalAssetsFamilyFirm(1) = mean(Data.Data2000.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(2) = mean(Data.Data2001.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(3) = mean(Data.Data2002.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(4) = mean(Data.Data2003.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(5) = mean(Data.Data2004.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(6) = mean(Data.Data2005.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(7) = mean(Data.Data2006.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(8) = mean(Data.Data2007.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(9) = mean(Data.Data2008.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(10) = mean(Data.Data2009.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(11) = mean(Data.Data2010.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(12) = mean(Data.Data2011.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(13) = mean(Data.Data2012.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(14) = mean(Data.Data2013.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(15) = mean(Data.Data2014.TotalAssets)

TotalAssetsTable.TotalAssetsFamilyFirm(16) = mean(Data.Data2015.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(1) = mean(DataNF.Data2000NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(2) = mean(DataNF.Data2001NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(3) = mean(DataNF.Data2002NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(4) = mean(DataNF.Data2003NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(5) = mean(DataNF.Data2004NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(6) = mean(DataNF.Data2005NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(7) = mean(DataNF.Data2006NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(8) = mean(DataNF.Data2007NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(9) = mean(DataNF.Data2008NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(10) = mean(DataNF.Data2009NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(11) = mean(DataNF.Data2010NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(12) = mean(DataNF.Data2011NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(13) = mean(DataNF.Data2012NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(14) = mean(DataNF.Data2013NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(15) = mean(DataNF.Data2014NF.TotalAssets)

TotalAssetsTable.TotalAssetsNonFamilyFirm(16) = mean(DataNF.Data2015NF.TotalAssets)

%% Import table to EXCEL

writetable(TotalAssetsTable,'TotalAssetsTable.xlsx')

%% Descriptive table

DescriptiveTableNF = table;

DescriptiveTableNF.Year(1) = 2000;

DescriptiveTableNF.Year(2) = 2001;

DescriptiveTableNF.Year(3) = 2002;

DescriptiveTableNF.Year(4) = 2003;

DescriptiveTableNF.Year(5) = 2004;

DescriptiveTableNF.Year(6) = 2005;

DescriptiveTableNF.Year(7) = 2006;

DescriptiveTableNF.Year(8) = 2007;

DescriptiveTableNF.Year(9) = 2008;

DescriptiveTableNF.Year(10) = 2009;

DescriptiveTableNF.Year(11) = 2010;

DescriptiveTableNF.Year(12) = 2011;

DescriptiveTableNF.Year(13) = 2012;

DescriptiveTableNF.Year(14) = 2013;

DescriptiveTableNF.Year(15) = 2014;

DescriptiveTableNF.Year(16) = 2015;

DescriptiveTableNF.NoOfFirms(1) = height(DataNF.Data2000NF);

DescriptiveTableNF.NoOfFirms(2) = height(DataNF.Data2001NF);

DescriptiveTableNF.NoOfFirms(3) = height(DataNF.Data2002NF);

DescriptiveTableNF.NoOfFirms(4) = height(DataNF.Data2003NF);

DescriptiveTableNF.NoOfFirms(5) = height(DataNF.Data2004NF);

DescriptiveTableNF.NoOfFirms(6) = height(DataNF.Data2005NF);

DescriptiveTableNF.NoOfFirms(7) = height(DataNF.Data2006NF);

DescriptiveTableNF.NoOfFirms(8) = height(DataNF.Data2007NF);

DescriptiveTableNF.NoOfFirms(9) = height(DataNF.Data2008NF);

DescriptiveTableNF.NoOfFirms(10) = height(DataNF.Data2009NF);

DescriptiveTableNF.NoOfFirms(11) = height(DataNF.Data2010NF);

DescriptiveTableNF.NoOfFirms(12) = height(DataNF.Data2011NF);

DescriptiveTableNF.NoOfFirms(13) = height(DataNF.Data2012NF);

DescriptiveTableNF.NoOfFirms(14) = height(DataNF.Data2013NF);

DescriptiveTableNF.NoOfFirms(15) = height(DataNF.Data2014NF);

DescriptiveTableNF.NoOfFirms(16) = height(DataNF.Data2015NF);

DescriptiveTableNF.OwnershipShare(1) = mean(DataNF.Data2000NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(2) = mean(DataNF.Data2001NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(3) = mean(DataNF.Data2002NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(4) = mean(DataNF.Data2003NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(5) = mean(DataNF.Data2004NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(6) = mean(DataNF.Data2005NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(7) = mean(DataNF.Data2006NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(8) = mean(DataNF.Data2007NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(9) = mean(DataNF.Data2008NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(10) = mean(DataNF.Data2009NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(11) = mean(DataNF.Data2010NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(12) = mean(DataNF.Data2011NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(13) = mean(DataNF.Data2012NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(14) = mean(DataNF.Data2013NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(15) = mean(DataNF.Data2014NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.OwnershipShare(16) = mean(DataNF.Data2015NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.FamilyCEO(1) = mean(DataNF.Data2000NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(2) = mean(DataNF.Data2001NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(3) = mean(DataNF.Data2002NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(4) = mean(DataNF.Data2003NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(5) = mean(DataNF.Data2004NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(6) = mean(DataNF.Data2005NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(7) = mean(DataNF.Data2006NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(8) = mean(DataNF.Data2007NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(9) = mean(DataNF.Data2008NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(10) = mean(DataNF.Data2009NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(11) = mean(DataNF.Data2010NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(12) = mean(DataNF.Data2011NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(13) = mean(DataNF.Data2012NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(14) = mean(DataNF.Data2013NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(15) = mean(DataNF.Data2014NF.LargestFamilyHasCEO);

DescriptiveTableNF.FamilyCEO(16) = mean(DataNF.Data2015NF.LargestFamilyHasCEO);

%% Characteristics table

CharacteristicsTableNF = table;

CharacteristicsTableNF.Year(1) = 2000;

CharacteristicsTableNF.Year(2) = 2001;

CharacteristicsTableNF.Year(3) = 2002;

CharacteristicsTableNF.Year(4) = 2003;

CharacteristicsTableNF.Year(5) = 2004;

CharacteristicsTableNF.Year(6) = 2005;

CharacteristicsTableNF.Year(7) = 2006;

CharacteristicsTableNF.Year(8) = 2007;

CharacteristicsTableNF.Year(9) = 2008;

CharacteristicsTableNF.Year(10) = 2009;

CharacteristicsTableNF.Year(11) = 2010;

CharacteristicsTableNF.Year(12) = 2011;

CharacteristicsTableNF.Year(13) = 2012;

CharacteristicsTableNF.Year(14) = 2013;

CharacteristicsTableNF.Year(15) = 2014;

CharacteristicsTableNF.Year(16) = 2015;

CharacteristicsTableNF.NoOfOwners(1) = mean(DataNF.Data2000NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(2) = mean(DataNF.Data2001NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(3) = mean(DataNF.Data2002NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(4) = mean(DataNF.Data2003NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(5) = mean(DataNF.Data2004NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(6) = mean(DataNF.Data2005NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(7) = mean(DataNF.Data2006NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(8) = mean(DataNF.Data2007NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(9) = mean(DataNF.Data2008NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(10) = mean(DataNF.Data2009NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(11) = mean(DataNF.Data2010NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(12) = mean(DataNF.Data2011NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(13) = mean(DataNF.Data2012NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(14) = mean(DataNF.Data2013NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(15) = mean(DataNF.Data2014NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.NoOfOwners(16) = mean(DataNF.Data2015NF.LargestFamilyNumberOfOwners);

CharacteristicsTableNF.TotalPaidinCapital(1) = mean(DataNF.Data2000NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(2) = mean(DataNF.Data2001NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(3) = mean(DataNF.Data2002NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(4) = mean(DataNF.Data2003NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(5) = mean(DataNF.Data2004NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(6) = mean(DataNF.Data2005NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(7) = mean(DataNF.Data2006NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(8) = mean(DataNF.Data2007NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(9) = mean(DataNF.Data2008NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(10) = mean(DataNF.Data2009NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(11) = mean(DataNF.Data2010NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(12) = mean(DataNF.Data2011NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(13) = mean(DataNF.Data2012NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(14) = mean(DataNF.Data2013NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(15) = mean(DataNF.Data2014NF.TotalPaidinCapital);

CharacteristicsTableNF.TotalPaidinCapital(16) = mean(DataNF.Data2015NF.TotalPaidinCapital);

CharacteristicsTableNF.CEOSalary(1) = mean(DataNF.Data2000NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(2) = mean(DataNF.Data2001NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(3) = mean(DataNF.Data2002NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(4) = mean(DataNF.Data2003NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(5) = mean(DataNF.Data2004NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(6) = mean(DataNF.Data2005NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(7) = mean(DataNF.Data2006NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(8) = mean(DataNF.Data2007NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(9) = mean(DataNF.Data2008NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(10) = mean(DataNF.Data2009NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(11) = mean(DataNF.Data2010NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(12) = mean(DataNF.Data2011NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(13) = mean(DataNF.Data2012NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(14) = mean(DataNF.Data2013NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(15) = mean(DataNF.Data2014NF.CEOSalary);

CharacteristicsTableNF.CEOSalary(16) = mean(DataNF.Data2015NF.CEOSalary);

CharacteristicsTableNF.Dividends(1) = mean(DataNF.Data2000NF.DividendsPayable);

CharacteristicsTableNF.Dividends(2) = mean(DataNF.Data2001NF.DividendsPayable);

CharacteristicsTableNF.Dividends(3) = mean(DataNF.Data2002NF.DividendsPayable);

CharacteristicsTableNF.Dividends(4) = mean(DataNF.Data2003NF.DividendsPayable);

CharacteristicsTableNF.Dividends(5) = mean(DataNF.Data2004NF.DividendsPayable);

CharacteristicsTableNF.Dividends(6) = mean(DataNF.Data2005NF.DividendsPayable);

CharacteristicsTableNF.Dividends(7) = mean(DataNF.Data2006NF.DividendsPayable);

CharacteristicsTableNF.Dividends(8) = mean(DataNF.Data2007NF.DividendsPayable);

CharacteristicsTableNF.Dividends(9) = mean(DataNF.Data2008NF.DividendsPayable);

CharacteristicsTableNF.Dividends(10) = mean(DataNF.Data2009NF.DividendsPayable);

CharacteristicsTableNF.Dividends(11) = mean(DataNF.Data2010NF.DividendsPayable);

CharacteristicsTableNF.Dividends(12) = mean(DataNF.Data2011NF.DividendsPayable);

CharacteristicsTableNF.Dividends(13) = mean(DataNF.Data2012NF.DividendsPayable);

CharacteristicsTableNF.Dividends(14) = mean(DataNF.Data2013NF.DividendsPayable);

CharacteristicsTableNF.Dividends(15) = mean(DataNF.Data2014NF.DividendsPayable);

CharacteristicsTableNF.Dividends(16) = mean(DataNF.Data2015NF.DividendsPayable);

CharacteristicsTableNF.Revenue(1) = mean(DataNF.Data2000NF.Revenue);

CharacteristicsTableNF.Revenue(2) = mean(DataNF.Data2001NF.Revenue);

CharacteristicsTableNF.Revenue(3) = mean(DataNF.Data2002NF.Revenue);

CharacteristicsTableNF.Revenue(4) = mean(DataNF.Data2003NF.Revenue);

CharacteristicsTableNF.Revenue(5) = mean(DataNF.Data2004NF.Revenue);

CharacteristicsTableNF.Revenue(6) = mean(DataNF.Data2005NF.Revenue);

CharacteristicsTableNF.Revenue(7) = mean(DataNF.Data2006NF.Revenue);

CharacteristicsTableNF.Revenue(8) = mean(DataNF.Data2007NF.Revenue);

CharacteristicsTableNF.Revenue(9) = mean(DataNF.Data2008NF.Revenue);

CharacteristicsTableNF.Revenue(10) = mean(DataNF.Data2009NF.Revenue);

CharacteristicsTableNF.Revenue(11) = mean(DataNF.Data2010NF.Revenue);

CharacteristicsTableNF.Revenue(12) = mean(DataNF.Data2011NF.Revenue);

CharacteristicsTableNF.Revenue(13) = mean(DataNF.Data2012NF.Revenue);

CharacteristicsTableNF.Revenue(14) = mean(DataNF.Data2013NF.Revenue);

CharacteristicsTableNF.Revenue(15) = mean(DataNF.Data2014NF.Revenue);

CharacteristicsTableNF.Revenue(16) = mean(DataNF.Data2015NF.Revenue);

CharacteristicsTableNF.ROA(1) = mean(DataNF.Data2000NF.ROA);

CharacteristicsTableNF.ROA(2) = mean(DataNF.Data2001NF.ROA);

CharacteristicsTableNF.ROA(3) = mean(DataNF.Data2002NF.ROA);

CharacteristicsTableNF.ROA(4) = mean(DataNF.Data2003NF.ROA);

CharacteristicsTableNF.ROA(5) = mean(DataNF.Data2004NF.ROA);

CharacteristicsTableNF.ROA(6) = mean(DataNF.Data2005NF.ROA);

CharacteristicsTableNF.ROA(7) = mean(DataNF.Data2006NF.ROA);

CharacteristicsTableNF.ROA(8) = mean(DataNF.Data2007NF.ROA);

CharacteristicsTableNF.ROA(9) = mean(DataNF.Data2008NF.ROA);

CharacteristicsTableNF.ROA(10) = mean(DataNF.Data2009NF.ROA);

CharacteristicsTableNF.ROA(11) = mean(DataNF.Data2010NF.ROA);

CharacteristicsTableNF.ROA(12) = mean(DataNF.Data2011NF.ROA);

CharacteristicsTableNF.ROA(13) = mean(DataNF.Data2012NF.ROA);

CharacteristicsTableNF.ROA(14) = mean(DataNF.Data2013NF.ROA);

CharacteristicsTableNF.ROA(15) = mean(DataNF.Data2014NF.ROA);

CharacteristicsTableNF.ROA(16) = mean(DataNF.Data2015NF.ROA);

CharacteristicsTableNF.ROE(1) = mean(OutliersROE2000NF);

CharacteristicsTableNF.ROE(2) = mean(OutliersROE2001NF);

CharacteristicsTableNF.ROE(3) = mean(OutliersROE2002NF);

CharacteristicsTableNF.ROE(4) = mean(DataNF.Data2003NF.ROE);

CharacteristicsTableNF.ROE(5) = mean(DataNF.Data2004NF.ROE);

CharacteristicsTableNF.ROE(6) = mean(DataNF.Data2005NF.ROE);

CharacteristicsTableNF.ROE(7) = mean(DataNF.Data2006NF.ROE);

CharacteristicsTableNF.ROE(8) = mean(DataNF.Data2007NF.ROE);

CharacteristicsTableNF.ROE(9) = mean(OutliersROE2008NF);

CharacteristicsTableNF.ROE(10) = mean(DataNF.Data2009NF.ROE);

CharacteristicsTableNF.ROE(11) = mean(DataNF.Data2010NF.ROE);

CharacteristicsTableNF.ROE(12) = mean(DataNF.Data2011NF.ROE);

CharacteristicsTableNF.ROE(13) = mean(DataNF.Data2012NF.ROE);

CharacteristicsTableNF.ROE(14) = mean(DataNF.Data2013NF.ROE);

CharacteristicsTableNF.ROE(15) = mean(DataNF.Data2014NF.ROE);

CharacteristicsTableNF.ROE(16) = mean(DataNF.Data2015NF.ROE);

CharacteristicsTableNF.NumberOfEmployees(1) = mean(DataNF.Data2000NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(2) = mean(DataNF.Data2001NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(3) = mean(DataNF.Data2002NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(4) = mean(DataNF.Data2003NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(5) = mean(DataNF.Data2004NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(6) = mean(DataNF.Data2005NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(7) = mean(DataNF.Data2006NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(8) = mean(DataNF.Data2007NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(9) = mean(DataNF.Data2008NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(10) = mean(DataNF.Data2009NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(11) = mean(DataNF.Data2010NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(12) = mean(DataNF.Data2011NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(13) = mean(DataNF.Data2012NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(14) = mean(DataNF.Data2013NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(15) = mean(DataNF.Data2014NF.NumberOfEmployees);

CharacteristicsTableNF.NumberOfEmployees(16) = mean(DataNF.Data2015NF.NumberOfEmployees);

%% Import table to EXCEL

writetable(CharacteristicsTableNF,'CharacteristicsTableNF.xlsx')

%% Top Decile 2000

DataNF.Data2000NF = sortrows(DataNF.Data2000NF,'Revenue','descend');

Third = round(height(DataNF.Data2000NF)./3);

DataTop.Data2000NF = DataNF.Data2000NF(1:Third,:);

%% Mid Decile 2000

CutoffTop = round(height(DataNF.Data2000NF)./3);

TwoThird = Third\*2;

DataMid.Data2000NF = DataNF.Data2000NF(Third:TwoThird,:);

%% Bottom Decile 2000

DataBottom.Data2000NF = DataNF.Data2000NF(TwoThird:end,:);

%% Top Decile 2001

DataNF.Data2001NF = sortrows(DataNF.Data2001NF,'Revenue','descend');

Third = round(height(DataNF.Data2001NF)./3);

DataTop.Data2001NF = DataNF.Data2001NF(1:Third,:);

%% Mid Decile 2001

CutoffTop = round(height(DataNF.Data2001NF)./3);

TwoThird = Third\*2;

DataMid.Data2001NF = DataNF.Data2001NF(Third:TwoThird,:);

%% Bottom Decile 2001

DataBottom.Data2001NF = DataNF.Data2001NF(TwoThird:end,:);

%% Top Decile 2002

DataNF.Data2002NF = sortrows(DataNF.Data2002NF,'Revenue','descend');

Third = round(height(DataNF.Data2002NF)./3);

DataTop.Data2002NF = DataNF.Data2002NF(1:Third,:);

%% Mid Decile 2002

CutoffTop = round(height(DataNF.Data2002NF)./3);

TwoThird = Third\*2;

DataMid.Data2002NF = DataNF.Data2002NF(Third:TwoThird,:);

%% Bottom Decile 2002

DataBottom.Data2002NF = DataNF.Data2002NF(TwoThird:end,:);

%% Top Decile 2003

DataNF.Data2003NF = sortrows(DataNF.Data2003NF,'Revenue','descend');

Third = round(height(DataNF.Data2003NF)./3);

DataTop.Data2003NF = DataNF.Data2003NF(1:Third,:);

%% Mid Decile 2003

CutoffTop = round(height(DataNF.Data2003NF)./3);

TwoThird = Third\*2;

DataMid.Data2003NF = DataNF.Data2003NF(Third:TwoThird,:);

%% Bottom Decile 2003

DataBottom.Data2003NF = DataNF.Data2003NF(TwoThird:end,:);

%% Top Decile 2004

DataNF.Data2004NF = sortrows(DataNF.Data2004NF,'Revenue','descend');

Third = round(height(DataNF.Data2004NF)./3);

DataTop.Data2004NF = DataNF.Data2004NF(1:Third,:);

%% Mid Decile 2004

CutoffTop = round(height(DataNF.Data2004NF)./3);

TwoThird = Third\*2;

DataMid.Data2004NF = DataNF.Data2004NF(Third:TwoThird,:);

%% Bottom Decile 2004

DataBottom.Data2004NF = DataNF.Data2004NF(TwoThird:end,:);

%% Top Decile 2005

DataNF.Data2005NF = sortrows(DataNF.Data2005NF,'Revenue','descend');

Third = round(height(DataNF.Data2005NF)./3);

DataTop.Data2005NF = DataNF.Data2005NF(1:Third,:);

%% Mid Decile 2005

CutoffTop = round(height(DataNF.Data2005NF)./3);

TwoThird = Third\*2;

DataMid.Data2005NF = DataNF.Data2005NF(Third:TwoThird,:);

%% Bottom Decile 2005

DataBottom.Data2005NF = DataNF.Data2005NF(TwoThird:end,:);

%% Top Decile 2006

DataNF.Data2006NF = sortrows(DataNF.Data2006NF,'Revenue','descend');

Third = round(height(DataNF.Data2006NF)./3);

DataTop.Data2006NF = DataNF.Data2006NF(1:Third,:);

%% Mid Decile 2006

CutoffTop = round(height(DataNF.Data2006NF)./3);

TwoThird = Third\*2;

DataMid.Data2006NF = DataNF.Data2006NF(Third:TwoThird,:);

%% Bottom Decile 2006

DataBottom.Data2006NF = DataNF.Data2006NF(TwoThird:end,:);

%% Top Decile 2007

DataNF.Data2007NF = sortrows(DataNF.Data2007NF,'Revenue','descend');

Third = round(height(DataNF.Data2007NF)./3);

DataTop.Data2007NF = DataNF.Data2007NF(1:Third,:);

%% Mid Decile 2007

CutoffTop = round(height(DataNF.Data2007NF)./3);

TwoThird = Third\*2;

DataMid.Data2007NF = DataNF.Data2007NF(Third:TwoThird,:);

%% Bottom Decile 2007

DataBottom.Data2007NF = DataNF.Data2007NF(TwoThird:end,:);

%% Top Decile 2008

DataNF.Data2008NF = sortrows(DataNF.Data2008NF,'Revenue','descend');

Third = round(height(DataNF.Data2008NF)./3);

DataTop.Data2008NF = DataNF.Data2008NF(1:Third,:);

%% Mid Decile 2008

CutoffTop = round(height(DataNF.Data2008NF)./3);

TwoThird = Third\*2;

DataMid.Data2008NF = DataNF.Data2008NF(Third:TwoThird,:);

%% Bottom Decile 2008

DataBottom.Data2008NF = DataNF.Data2008NF(TwoThird:end,:);

%% Top Decile 2009

DataNF.Data2000NF = sortrows(DataNF.Data2009NF,'Revenue','descend');

Third = round(height(DataNF.Data2009NF)./3);

DataTop.Data2009NF = DataNF.Data2009NF(1:Third,:);

%% Mid Decile 2009

CutoffTop = round(height(DataNF.Data2009NF)./3);

TwoThird = Third\*2;

DataMid.Data2009NF = DataNF.Data2009NF(Third:TwoThird,:);

%% Bottom Decile 2009

DataBottom.Data2009NF = DataNF.Data2009NF(TwoThird:end,:);

%% Top Decile 2010

DataNF.Data2010NF = sortrows(DataNF.Data2010NF,'Revenue','descend');

Third = round(height(DataNF.Data2010NF)./3);

DataTop.Data2010NF = DataNF.Data2010NF(1:Third,:);

%% Mid Decile 2010

CutoffTop = round(height(DataNF.Data2010NF)./3);

TwoThird = Third\*2;

DataMid.Data2010NF = DataNF.Data2010NF(Third:TwoThird,:);

%% Bottom Decile 2010

DataBottom.Data2010NF = DataNF.Data2010NF(TwoThird:end,:);

%% Top Decile 2011

DataNF.Data2011NF = sortrows(DataNF.Data2011NF,'Revenue','descend');

Third = round(height(DataNF.Data2011NF)./3);

DataTop.Data2011NF = DataNF.Data2011NF(1:Third,:);

%% Mid Decile 2011

CutoffTop = round(height(DataNF.Data2011NF)./3);

TwoThird = Third\*2;

DataMid.Data2011NF = DataNF.Data2011NF(Third:TwoThird,:);

%% Bottom Decile 2011

DataBottom.Data2011NF = DataNF.Data2011NF(TwoThird:end,:);

%% Top Decile 2012

DataNF.Data2012NF = sortrows(DataNF.Data2012NF,'Revenue','descend');

Third = round(height(DataNF.Data2012NF)./3);

DataTop.Data2012NF = DataNF.Data2012NF(1:Third,:);

%% Mid Decile 2012

CutoffTop = round(height(DataNF.Data2012NF)./3);

TwoThird = Third\*2;

DataMid.Data2012NF = DataNF.Data2012NF(Third:TwoThird,:);

%% Bottom Decile 2012

DataBottom.Data2012NF = DataNF.Data2012NF(TwoThird:end,:);

%% Top Decile 2013

DataNF.Data2013NF = sortrows(DataNF.Data2013NF,'Revenue','descend');

Third = round(height(DataNF.Data2013NF)./3);

DataTop.Data2013NF = DataNF.Data2013NF(1:Third,:);

%% Mid Decile 2013

CutoffTop = round(height(DataNF.Data2013NF)./3);

TwoThird = Third\*2;

DataMid.Data2013NF = DataNF.Data2013NF(Third:TwoThird,:);

%% Bottom Decile 2013

DataBottom.Data2013NF = DataNF.Data2013NF(TwoThird:end,:);

%% Top Decile 2014

DataNF.Data2014NF = sortrows(DataNF.Data2014NF,'Revenue','descend');

Third = round(height(DataNF.Data2014NF)./3);

DataTop.Data2014NF = DataNF.Data2014NF(1:Third,:);

%% Mid Decile 2014

CutoffTop = round(height(DataNF.Data2014NF)./3);

TwoThird = Third\*2;

DataMid.Data2014NF = DataNF.Data2014NF(Third:TwoThird,:);

%% Bottom Decile 2014

DataBottom.Data2014NF = DataNF.Data2014NF(TwoThird:end,:);

%% Top Decile 2015

DataNF.Data2015NF = sortrows(DataNF.Data2015NF,'Revenue','descend');

Third = round(height(DataNF.Data2015NF)./3);

DataTop.Data2015NF = DataNF.Data2015NF(1:Third,:);

%% Mid Decile 2015

CutoffTop = round(height(DataNF.Data2015NF)./3);

TwoThird = Third\*2;

DataMid.Data2015NF = DataNF.Data2015NF(Third:TwoThird,:);

%% Bottom Decile 2015

DataBottom.Data2015NF = DataNF.Data2015NF(TwoThird:end,:);

%% Descriptive table

DescriptiveTableNF.BottomDecileShare(1) = mean(DataBottom.Data2000NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(2) = mean(DataBottom.Data2001NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(3) = mean(DataBottom.Data2002NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(4) = mean(DataBottom.Data2003NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(5) = mean(DataBottom.Data2004NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(6) = mean(DataBottom.Data2005NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(7) = mean(DataBottom.Data2006NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(8) = mean(DataBottom.Data2007NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(9) = mean(DataBottom.Data2008NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(10) = mean(DataBottom.Data2009NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(11) = mean(DataBottom.Data2010NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(12) = mean(DataBottom.Data2011NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(13) = mean(DataBottom.Data2012NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(14) = mean(DataBottom.Data2013NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(15) = mean(DataBottom.Data2014NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.BottomDecileShare(16) = mean(DataBottom.Data2015NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(1) = mean(DataMid.Data2000NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(2) = mean(DataMid.Data2001NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(3) = mean(DataMid.Data2002NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(4) = mean(DataMid.Data2003NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(5) = mean(DataMid.Data2004NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(6) = mean(DataMid.Data2005NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(7) = mean(DataMid.Data2006NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(8) = mean(DataMid.Data2007NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(9) = mean(DataMid.Data2008NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(10) = mean(DataMid.Data2009NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(11) = mean(DataMid.Data2010NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(12) = mean(DataMid.Data2011NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(13) = mean(DataMid.Data2012NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(14) = mean(DataMid.Data2013NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(15) = mean(DataMid.Data2014NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.MidDecileShare(16) = mean(DataMid.Data2015NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(1) = mean(DataTop.Data2000NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(2) = mean(DataTop.Data2001NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(3) = mean(DataTop.Data2002NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(4) = mean(DataTop.Data2003NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(5) = mean(DataTop.Data2004NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(6) = mean(DataTop.Data2005NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(7) = mean(DataTop.Data2006NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(8) = mean(DataTop.Data2007NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(9) = mean(DataTop.Data2008NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(10) = mean(DataTop.Data2009NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(11) = mean(DataTop.Data2010NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(12) = mean(DataTop.Data2011NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(13) = mean(DataTop.Data2012NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(14) = mean(DataTop.Data2013NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(15) = mean(DataTop.Data2014NF.LargestFamilySumUltOwnership);

DescriptiveTableNF.TopDecileShare(16) = mean(DataTop.Data2015NF.LargestFamilySumUltOwnership);

%% Import table to EXCEL

writetable(DescriptiveTableNF,'DescriptiveTableNF.xlsx');

%% REG

ProfitabilityROA2002 = fitlm(DataNF.Data2002,'ROA~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+NumberOfEmployees+Revenue+TotalPaidinCapital+DividendsPayable+CEOSalary');

ProfitabilityROA2005 = fitlm(DataNF.Data2005,'ROA~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+NumberOfEmployees+Revenue+TotalPaidinCapital+DividendsPayable+CEOSalary');

ProfitabilityROA2010 = fitlm(DataNF.Data2010,'ROA~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+NumberOfEmployees+Revenue+TotalPaidinCapital+DividendsPayable+CEOSalary');

ProfitabilityROA2015 = fitlm(DataNF.Data2015,'ROA~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+NumberOfEmployees+Revenue+TotalPaidinCapital+DividendsPayable+CEOSalary');

ProfitabilityROE2002 = fitlm(DataNF.Data2002,'ROE~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+NumberOfEmployees+Revenue+TotalPaidinCapital+DividendsPayable+CEOSalary');

ProfitabilityROE2005 = fitlm(DataNF.Data2005,'ROE~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+NumberOfEmployees+Revenue+TotalPaidinCapital+DividendsPayable+CEOSalary');

ProfitabilityROE2010 = fitlm(DataNF.Data2010,'ROE~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+NumberOfEmployees+Revenue+TotalPaidinCapital+DividendsPayable+CEOSalary');

ProfitabilityROE2015 = fitlm(DataNF.Data2015,'ROE~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+NumberOfEmployees+Revenue+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthRevenue2002 = fitlm(DataNF.Data2002,'Revenue~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthRevenue2005 = fitlm(DataNF.Data2005,'Revenue~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthRevenue2010 = fitlm(DataNF.Data2010,'Revenue~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthRevenue2015 = fitlm(DataNF.Data2015,'Revenue~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthTotalAssets2002 = fitlm(DataNF.Data2002,'TotalAssets~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthTotalAssets2005 = fitlm(DataNF.Data2005,'TotalAssets~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthTotalAssets2010 = fitlm(DataNF.Data2010,'TotalAssets~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthTotalAssets2015 = fitlm(DataNF.Data2015,'TotalAssets~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthNumberOfEmployees2002 = fitlm(DataNF.Data2002,'NumberOfEmployees~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthNumberOfEmployees2005 = fitlm(DataNF.Data2005,'NumberOfEmployees~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthNumberOfEmployees2010 = fitlm(DataNF.Data2010,'NumberOfEmployees~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

GrowthNumberOfEmployees2015 = fitlm(DataNF.Data2015,'NumberOfEmployees~LargestFamilySumUltOwnership+LargestFamilyHasCEO+CompanyAge+LargestFamilyNumberOfOwners+TotalPaidinCapital+DividendsPayable+CEOSalary');

%% Master Thesis validity 1

%Setup

clc

clear all

%Import file

opts = delimitedTextImportOptions("NumVariables", 22);

opts.DataLines = [2, Inf];

opts.Delimiter = "\t";

opts.VariableNames = ["pcid", "yr", "currency", "item\_15302", "item\_15304", "item\_4", "item\_9", "item\_11102", "item\_13420", "item\_78", "item\_63", "item\_30", "item\_35", "item\_39", "item\_87", "item\_82", "item\_105", "item\_114", "item\_15307", "item\_50109", "item\_14507", "item\_14018"];

opts.VariableTypes = ["double", "double", "string", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double"];

opts.ImportErrorRule = "omitrow";

opts.MissingRule = "omitrow";

opts.ExtraColumnsRule = "ignore";

opts.EmptyLineRule = "read";

opts = setvaropts(opts, "currency", "WhitespaceRule", "preserve");

opts = setvaropts(opts, "currency", "EmptyFieldRule", "auto");

opts = setvaropts(opts, ["item\_11102", "item\_50109"], "TrimNonNumeric", true);

opts = setvaropts(opts, ["item\_11102", "item\_50109"], "ThousandsSeparator", ",");

Data = readtable("/Users/joakim/Desktop/CCGR Data/J.txt", opts);

clear opts

%% Sorting variables

clc

%Create new variable names

NewData=table;

NewData.pcid=Data.pcid;

NewData.yr=Data.yr;

NewData.LargestFamilySumUltOwnership=Data.item\_15302;

NewData.LargestFamilyHasCEO=Data.item\_15304;

NewData.CEOBirthYear=Data.item\_4;

NewData.Revenue=Data.item\_9;

NewData.IndustryCodes=Data.item\_11102;

NewData.CompanyAge=Data.item\_13420;

NewData.TotalCurrentAssets=Data.item\_78;

NewData.TotalFixedAssets=Data.item\_63;

NewData.OtherInterestExpenses=Data.item\_30;

NewData.IncomeBeforeExtraoridinaryItems=Data.item\_35;

NewData.NetIncome=Data.item\_39;

NewData.TotalEquity=Data.item\_87;

NewData.TotalPaidinCapital=Data.item\_82;

NewData.DividendsPayable=Data.item\_105;

NewData.CEOSalary=Data.item\_114;

NewData.LargestFamilyNumberOfOwners=Data.item\_15307;

NewData.NumberOfEmployees=Data.item\_50109;

NewData.IsIndependent=Data.item\_14507;

NewData.AggregateFractionHeldByInstitutionalOwners=Data.item\_14018;

% Create new variables

NewData.EBIT = NewData.NetIncome - NewData.OtherInterestExpenses;

NewData.TotalAssets = NewData.TotalCurrentAssets + NewData.TotalFixedAssets;

NewData.ROA = NewData.EBIT ./ NewData.TotalAssets;

NewData.ROE = NewData.NetIncome ./ NewData.TotalEquity;

toDelete = NewData.Revenue == 0;

NewData(toDelete,:) = [];

toDelete = NewData.NetIncome == 0;

NewData(toDelete,:) = [];

toDelete = NewData.TotalAssets == 0;

NewData(toDelete,:) = [];

toDelete = NewData.TotalAssets == 0;

NewData(toDelete,:) = [];

toDelete = NewData.TotalAssets == 0;

NewData(toDelete,:) = [];

toDelete = NewData.NumberOfEmployees == 0;

NewData(toDelete,:) = [];

%% Yearly tables

i=1;

for i=1:1

YearlyData.Data2000=NewData;

toDelete = NewData.yr ~= 2000;

YearlyData.Data2000(toDelete,:) = [];

YearlyData.Data2001=NewData;

toDelete = NewData.yr ~= 2001;

YearlyData.Data2001(toDelete,:) = [];

YearlyData.Data2002=NewData;

toDelete = NewData.yr ~= 2002;

YearlyData.Data2002(toDelete,:) = [];

YearlyData.Data2003=NewData;

toDelete = NewData.yr ~= 2003;

YearlyData.Data2003(toDelete,:) = [];

YearlyData.Data2004=NewData;

toDelete = NewData.yr ~= 2004;

YearlyData.Data2004(toDelete,:) = [];

YearlyData.Data2005=NewData;

toDelete = NewData.yr ~= 2005;

YearlyData.Data2005(toDelete,:) = [];

YearlyData.Data2006=NewData;

toDelete = NewData.yr ~= 2006;

YearlyData.Data2006(toDelete,:) = [];

YearlyData.Data2007=NewData;

toDelete = NewData.yr ~= 2007;

YearlyData.Data2007(toDelete,:) = [];

YearlyData.Data2008=NewData;

toDelete = NewData.yr ~= 2008;

YearlyData.Data2008(toDelete,:) = [];

YearlyData.Data2009=NewData;

toDelete = NewData.yr ~= 2009;

YearlyData.Data2009(toDelete,:) = [];

YearlyData.Data2010=NewData;

toDelete = NewData.yr ~= 2010;

YearlyData.Data2010(toDelete,:) = [];

YearlyData.Data2011=NewData;

toDelete = NewData.yr ~= 2011;

YearlyData.Data2011(toDelete,:) = [];

YearlyData.Data2012=NewData;

toDelete = NewData.yr ~= 2012;

YearlyData.Data2012(toDelete,:) = [];

YearlyData.Data2013=NewData;

toDelete = NewData.yr ~= 2013;

YearlyData.Data2013(toDelete,:) = [];

YearlyData.Data2014=NewData;

toDelete = NewData.yr ~= 2014;

YearlyData.Data2014(toDelete,:) = [];

YearlyData.Data2015=NewData;

toDelete = NewData.yr ~= 2015;

YearlyData.Data2015(toDelete,:) = [];

clear toDelete

end%Family

%% Statistic overview family control 2001

toDelete = YearlyData.Data2001.LargestFamilySumUltOwnership < 100;

YearlyData.Data2001(toDelete,:) = [];

toDelete = YearlyData.Data2001.LargestFamilyHasCEO < 1;

YearlyData.Data2001(toDelete,:) = [];

toDelete = YearlyData.Data2001.CompanyAge > 1;

YearlyData.Data2001(toDelete,:) = [];

toDelete = YearlyData.Data2001.IsIndependent < 1;

YearlyData.Data2001(toDelete,:) = [];

toDelete = YearlyData.Data2001.Revenue == 0;

YearlyData.Data2001(toDelete,:) = [];

toDelete = YearlyData.Data2001.NetIncome == 0;

YearlyData.Data2001(toDelete,:) = [];

toDelete = YearlyData.Data2001.NumberOfEmployees == 0;

YearlyData.Data2001(toDelete,:) = [];

toDelete = YearlyData.Data2001.TotalAssets == 0;

YearlyData.Data2001(toDelete,:) = [];

%% Statistic overview family control 2002

idlist = YearlyData.Data2001.pcid;

Data2002Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2002);

for k=1:length(idlist)

if YearlyData.Data2002.pcid(i) == idlist(k)

Data2002Temp(s,:) = YearlyData.Data2002(i,:);

s=s+1;

end

end

end

YearlyData.Data2002 = Data2002Temp;

clear Data2002Temp

%% Statistic overview family control 2003

idlist = YearlyData.Data2002.pcid;

Data2003Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2003);

for k=1:length(idlist)

if YearlyData.Data2003.pcid(i) == idlist(k)

Data2003Temp(s,:) = YearlyData.Data2003(i,:);

s=s+1;

end

end

end

YearlyData.Data2003 = Data2003Temp;

clear Data2003Temp

%% Statistic overview family control 2004

idlist = YearlyData.Data2003.pcid;

Data2004Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2004);

for k=1:length(idlist)

if YearlyData.Data2004.pcid(i) == idlist(k)

Data2004Temp(s,:) = YearlyData.Data2004(i,:);

s=s+1;

end

end

end

YearlyData.Data2004 = Data2004Temp;

clear Data2004Temp

%% Statistic overview family control 2005

idlist = YearlyData.Data2004.pcid;

Data2005Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2005);

for k=1:length(idlist)

if YearlyData.Data2005.pcid(i) == idlist(k)

Data2005Temp(s,:) = YearlyData.Data2005(i,:);

s=s+1;

end

end

end

YearlyData.Data2005 = Data2005Temp;

clear Data2005Temp

%% Statistic overview family control 2006

idlist = YearlyData.Data2005.pcid;

Data2006Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2006);

for k=1:length(idlist)

if YearlyData.Data2006.pcid(i) == idlist(k)

Data2006Temp(s,:) = YearlyData.Data2006(i,:);

s=s+1;

end

end

end

YearlyData.Data2006 = Data2006Temp;

clear Data2006Temp

%% Statistic overview family control 2007

idlist = YearlyData.Data2006.pcid;

Data2007Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2007);

for k=1:length(idlist)

if YearlyData.Data2007.pcid(i) == idlist(k)

Data2007Temp(s,:) = YearlyData.Data2007(i,:);

s=s+1;

end

end

end

YearlyData.Data2007 = Data2007Temp;

clear Data2007Temp

%% Statistic overview family control 2008

idlist = YearlyData.Data2007.pcid;

Data2008Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2008);

for k=1:length(idlist)

if YearlyData.Data2008.pcid(i) == idlist(k)

Data2008Temp(s,:) = YearlyData.Data2008(i,:);

s=s+1;

end

end

end

YearlyData.Data2008 = Data2008Temp;

clear Data2008Temp

%% Statistic overview family control 2009

idlist = YearlyData.Data2008.pcid;

Data2009Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2009);

for k=1:length(idlist)

if YearlyData.Data2009.pcid(i) == idlist(k)

Data2009Temp(s,:) = YearlyData.Data2009(i,:);

s=s+1;

end

end

end

YearlyData.Data2009 = Data2009Temp;

clear Data2009Temp

%% Statistic overview family control 2010

idlist = YearlyData.Data2009.pcid;

Data2010Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2010);

for k=1:length(idlist)

if YearlyData.Data2010.pcid(i) == idlist(k)

Data2010Temp(s,:) = YearlyData.Data2010(i,:);

s=s+1;

end

end

end

YearlyData.Data2010 = Data2010Temp;

clear Data2010Temp

%% Statistic overview family control 2011

idlist = YearlyData.Data2010.pcid;

Data2011Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2011);

for k=1:length(idlist)

if YearlyData.Data2011.pcid(i) == idlist(k)

Data2011Temp(s,:) = YearlyData.Data2011(i,:);

s=s+1;

end

end

end

YearlyData.Data2011 = Data2011Temp;

clear Data2011Temp

%% Statistic overview family control 2012

idlist = YearlyData.Data2011.pcid;

Data2012Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2012);

for k=1:length(idlist)

if YearlyData.Data2012.pcid(i) == idlist(k)

Data2012Temp(s,:) = YearlyData.Data2012(i,:);

s=s+1;

end

end

end

YearlyData.Data2012 = Data2012Temp;

clear Data2012Temp

%% Statistic overview family control 2013

idlist = YearlyData.Data2012.pcid;

Data2013Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2013);

for k=1:length(idlist)

if YearlyData.Data2013.pcid(i) == idlist(k)

Data2013Temp(s,:) = YearlyData.Data2013(i,:);

s=s+1;

end

end

end

YearlyData.Data2013 = Data2013Temp;

clear Data2013Temp

%% Statistic overview family control 2014

idlist = YearlyData.Data2013.pcid;

Data2014Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2014);

for k=1:length(idlist)

if YearlyData.Data2014.pcid(i) == idlist(k)

Data2014Temp(s,:) = YearlyData.Data2014(i,:);

s=s+1;

end

end

end

YearlyData.Data2014 = Data2014Temp;

clear Data2014Temp

%% Statistic overview family control 2015

idlist = YearlyData.Data2014.pcid;

Data2015Temp = table;

i=1;

k=1;

s=1;

for i=1:height(YearlyData.Data2015);

for k=1:length(idlist)

if YearlyData.Data2015.pcid(i) == idlist(k)

Data2015Temp(s,:) = YearlyData.Data2015(i,:);

s=s+1;

end

end

end

YearlyData.Data2015 = Data2015Temp;

clear Data2015Temp

%% Export to excel

writetable(YearlyData.Data2001,'Data2001.xlsx')

writetable(YearlyData.Data2002,'Data2002.xlsx')

writetable(YearlyData.Data2003,'Data2003.xlsx')

writetable(YearlyData.Data2004,'Data2004.xlsx')

writetable(YearlyData.Data2005,'Data2005.xlsx')

writetable(YearlyData.Data2006,'Data2006.xlsx')

writetable(YearlyData.Data2007,'Data2007.xlsx')

writetable(YearlyData.Data2008,'Data2008.xlsx')

writetable(YearlyData.Data2009,'Data2009.xlsx')

writetable(YearlyData.Data2010,'Data2010.xlsx')

writetable(YearlyData.Data2011,'Data2011.xlsx')

writetable(YearlyData.Data2012,'Data2012.xlsx')

writetable(YearlyData.Data2013,'Data2013.xlsx')

writetable(YearlyData.Data2014,'Data2014.xlsx')

writetable(YearlyData.Data2015,'Data2015.xlsx')

%% Master Thesis Validity Part 2

%Setup

clc

clear all

%Import files

Data.Data2001 = readtable('Data2001.xlsx');

Data.Data2002 = readtable('Data2002.xlsx');

Data.Data2003 = readtable('Data2003.xlsx');

Data.Data2004 = readtable('Data2004.xlsx');

Data.Data2005 = readtable('Data2005.xlsx');

Data.Data2006 = readtable('Data2006.xlsx');

Data.Data2007 = readtable('Data2007.xlsx');

Data.Data2008 = readtable('Data2008.xlsx');

Data.Data2009 = readtable('Data2009.xlsx');

Data.Data2010 = readtable('Data2010.xlsx');

Data.Data2011 = readtable('Data2011.xlsx');

Data.Data2012 = readtable('Data2012.xlsx');

Data.Data2013 = readtable('Data2013.xlsx');

Data.Data2014 = readtable('Data2014.xlsx');

Data.Data2015 = readtable('Data2015.xlsx');

%% Removing extremevalues for variable ROE

OutliersROE2001 = rmoutliers(Data.Data2001.ROE,'percentiles',[10 90]);

OutliersROE2007 = rmoutliers(Data.Data2007.ROE,'percentiles',[10 90]);

%% Descriptive table

DescriptiveTable = table;

DescriptiveTable.Year(1) = 2001;

DescriptiveTable.Year(2) = 2002;

DescriptiveTable.Year(3) = 2003;

DescriptiveTable.Year(4) = 2004;

DescriptiveTable.Year(5) = 2005;

DescriptiveTable.Year(6) = 2006;

DescriptiveTable.Year(7) = 2007;

DescriptiveTable.Year(8) = 2008;

DescriptiveTable.Year(9) = 2009;

DescriptiveTable.Year(10) = 2010;

DescriptiveTable.Year(11) = 2011;

DescriptiveTable.Year(12) = 2012;

DescriptiveTable.Year(13) = 2013;

DescriptiveTable.Year(14) = 2014;

DescriptiveTable.Year(15) = 2015;

DescriptiveTable.NoOfFirms(1) = height(Data.Data2001);

DescriptiveTable.NoOfFirms(2) = height(Data.Data2002);

DescriptiveTable.NoOfFirms(3) = height(Data.Data2003);

DescriptiveTable.NoOfFirms(4) = height(Data.Data2004);

DescriptiveTable.NoOfFirms(5) = height(Data.Data2005);

DescriptiveTable.NoOfFirms(6) = height(Data.Data2006);

DescriptiveTable.NoOfFirms(7) = height(Data.Data2007);

DescriptiveTable.NoOfFirms(8) = height(Data.Data2008);

DescriptiveTable.NoOfFirms(9) = height(Data.Data2009);

DescriptiveTable.NoOfFirms(10) = height(Data.Data2010);

DescriptiveTable.NoOfFirms(11) = height(Data.Data2011);

DescriptiveTable.NoOfFirms(12) = height(Data.Data2012);

DescriptiveTable.NoOfFirms(13) = height(Data.Data2013);

DescriptiveTable.NoOfFirms(14) = height(Data.Data2014);

DescriptiveTable.NoOfFirms(15) = height(Data.Data2015);

DescriptiveTable.OwnershipShare(1) = mean(Data.Data2001.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(2) = mean(Data.Data2002.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(3) = mean(Data.Data2003.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(4) = mean(Data.Data2004.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(5) = mean(Data.Data2005.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(6) = mean(Data.Data2006.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(7) = mean(Data.Data2007.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(8) = mean(Data.Data2008.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(9) = mean(Data.Data2009.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(10) = mean(Data.Data2010.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(11) = mean(Data.Data2011.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(12) = mean(Data.Data2012.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(13) = mean(Data.Data2013.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(14) = mean(Data.Data2014.LargestFamilySumUltOwnership);

DescriptiveTable.OwnershipShare(15) = mean(Data.Data2015.LargestFamilySumUltOwnership);

DescriptiveTable.FamilyCEO(1) = mean(Data.Data2001.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(2) = mean(Data.Data2002.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(3) = mean(Data.Data2003.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(4) = mean(Data.Data2004.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(5) = mean(Data.Data2005.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(6) = mean(Data.Data2006.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(7) = mean(Data.Data2007.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(8) = mean(Data.Data2008.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(9) = mean(Data.Data2009.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(10) = mean(Data.Data2010.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(11) = mean(Data.Data2011.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(12) = mean(Data.Data2012.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(13) = mean(Data.Data2013.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(14) = mean(Data.Data2014.LargestFamilyHasCEO);

DescriptiveTable.FamilyCEO(15) = mean(Data.Data2015.LargestFamilyHasCEO);

%% Characteristics table

CharacteristicsTable = table;

CharacteristicsTable.Year(1) = 2001;

CharacteristicsTable.Year(2) = 2002;

CharacteristicsTable.Year(3) = 2003;

CharacteristicsTable.Year(4) = 2004;

CharacteristicsTable.Year(5) = 2005;

CharacteristicsTable.Year(6) = 2006;

CharacteristicsTable.Year(7) = 2007;

CharacteristicsTable.Year(8) = 2008;

CharacteristicsTable.Year(9) = 2009;

CharacteristicsTable.Year(10) = 2010;

CharacteristicsTable.Year(11) = 2011;

CharacteristicsTable.Year(12) = 2012;

CharacteristicsTable.Year(13) = 2013;

CharacteristicsTable.Year(14) = 2014;

CharacteristicsTable.Year(15) = 2015;

CharacteristicsTable.NoOfOwners(1) = mean(Data.Data2001.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(2) = mean(Data.Data2002.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(3) = mean(Data.Data2003.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(4) = mean(Data.Data2004.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(5) = mean(Data.Data2005.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(6) = mean(Data.Data2006.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(7) = mean(Data.Data2007.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(8) = mean(Data.Data2008.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(9) = mean(Data.Data2009.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(10) = mean(Data.Data2010.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(11) = mean(Data.Data2011.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(12) = mean(Data.Data2012.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(13) = mean(Data.Data2013.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(14) = mean(Data.Data2014.LargestFamilyNumberOfOwners);

CharacteristicsTable.NoOfOwners(15) = mean(Data.Data2015.LargestFamilyNumberOfOwners);

CharacteristicsTable.TotalPaidinCapital(1) = mean(Data.Data2001.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(2) = mean(Data.Data2002.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(3) = mean(Data.Data2003.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(4) = mean(Data.Data2004.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(5) = mean(Data.Data2005.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(6) = mean(Data.Data2006.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(7) = mean(Data.Data2007.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(8) = mean(Data.Data2008.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(9) = mean(Data.Data2009.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(10) = mean(Data.Data2010.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(11) = mean(Data.Data2011.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(12) = mean(Data.Data2012.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(13) = mean(Data.Data2013.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(14) = mean(Data.Data2014.TotalPaidinCapital);

CharacteristicsTable.TotalPaidinCapital(15) = mean(Data.Data2015.TotalPaidinCapital);

CharacteristicsTable.CEOSalary(1) = mean(Data.Data2001.CEOSalary);

CharacteristicsTable.CEOSalary(2) = mean(Data.Data2002.CEOSalary);

CharacteristicsTable.CEOSalary(3) = mean(Data.Data2003.CEOSalary);

CharacteristicsTable.CEOSalary(4) = mean(Data.Data2004.CEOSalary);

CharacteristicsTable.CEOSalary(5) = mean(Data.Data2005.CEOSalary);

CharacteristicsTable.CEOSalary(6) = mean(Data.Data2006.CEOSalary);

CharacteristicsTable.CEOSalary(7) = mean(Data.Data2007.CEOSalary);

CharacteristicsTable.CEOSalary(8) = mean(Data.Data2008.CEOSalary);

CharacteristicsTable.CEOSalary(9) = mean(Data.Data2009.CEOSalary);

CharacteristicsTable.CEOSalary(10) = mean(Data.Data2010.CEOSalary);

CharacteristicsTable.CEOSalary(11) = mean(Data.Data2011.CEOSalary);

CharacteristicsTable.CEOSalary(12) = mean(Data.Data2012.CEOSalary);

CharacteristicsTable.CEOSalary(13) = mean(Data.Data2013.CEOSalary);

CharacteristicsTable.CEOSalary(14) = mean(Data.Data2014.CEOSalary);

CharacteristicsTable.CEOSalary(15) = mean(Data.Data2015.CEOSalary);

CharacteristicsTable.Dividends(1) = mean(Data.Data2001.DividendsPayable);

CharacteristicsTable.Dividends(2) = mean(Data.Data2002.DividendsPayable);

CharacteristicsTable.Dividends(3) = mean(Data.Data2003.DividendsPayable);

CharacteristicsTable.Dividends(4) = mean(Data.Data2004.DividendsPayable);

CharacteristicsTable.Dividends(5) = mean(Data.Data2005.DividendsPayable);

CharacteristicsTable.Dividends(6) = mean(Data.Data2006.DividendsPayable);

CharacteristicsTable.Dividends(7) = mean(Data.Data2007.DividendsPayable);

CharacteristicsTable.Dividends(8) = mean(Data.Data2008.DividendsPayable);

CharacteristicsTable.Dividends(9) = mean(Data.Data2009.DividendsPayable);

CharacteristicsTable.Dividends(10) = mean(Data.Data2010.DividendsPayable);

CharacteristicsTable.Dividends(11) = mean(Data.Data2011.DividendsPayable);

CharacteristicsTable.Dividends(12) = mean(Data.Data2012.DividendsPayable);

CharacteristicsTable.Dividends(13) = mean(Data.Data2013.DividendsPayable);

CharacteristicsTable.Dividends(14) = mean(Data.Data2014.DividendsPayable);

CharacteristicsTable.Dividends(15) = mean(Data.Data2015.DividendsPayable);

CharacteristicsTable.Revenue(1) = mean(Data.Data2001.Revenue);

CharacteristicsTable.Revenue(2) = mean(Data.Data2002.Revenue);

CharacteristicsTable.Revenue(3) = mean(Data.Data2003.Revenue);

CharacteristicsTable.Revenue(4) = mean(Data.Data2004.Revenue);

CharacteristicsTable.Revenue(5) = mean(Data.Data2005.Revenue);

CharacteristicsTable.Revenue(6) = mean(Data.Data2006.Revenue);

CharacteristicsTable.Revenue(7) = mean(Data.Data2007.Revenue);

CharacteristicsTable.Revenue(8) = mean(Data.Data2008.Revenue);

CharacteristicsTable.Revenue(9) = mean(Data.Data2009.Revenue);

CharacteristicsTable.Revenue(10) = mean(Data.Data2010.Revenue);

CharacteristicsTable.Revenue(11) = mean(Data.Data2011.Revenue);

CharacteristicsTable.Revenue(12) = mean(Data.Data2012.Revenue);

CharacteristicsTable.Revenue(13) = mean(Data.Data2013.Revenue);

CharacteristicsTable.Revenue(14) = mean(Data.Data2014.Revenue);

CharacteristicsTable.Revenue(15) = mean(Data.Data2015.Revenue);

CharacteristicsTable.ROA(1) = mean(Data.Data2001.ROA);

CharacteristicsTable.ROA(2) = mean(Data.Data2002.ROA);

CharacteristicsTable.ROA(3) = mean(Data.Data2003.ROA);

CharacteristicsTable.ROA(4) = mean(Data.Data2004.ROA);

CharacteristicsTable.ROA(5) = mean(Data.Data2005.ROA);

CharacteristicsTable.ROA(6) = mean(Data.Data2006.ROA);

CharacteristicsTable.ROA(7) = mean(Data.Data2007.ROA);

CharacteristicsTable.ROA(8) = mean(Data.Data2008.ROA);

CharacteristicsTable.ROA(9) = mean(Data.Data2009.ROA);

CharacteristicsTable.ROA(10) = mean(Data.Data2010.ROA);

CharacteristicsTable.ROA(11) = mean(Data.Data2011.ROA);

CharacteristicsTable.ROA(12) = mean(Data.Data2012.ROA);

CharacteristicsTable.ROA(13) = mean(Data.Data2013.ROA);

CharacteristicsTable.ROA(14) = mean(Data.Data2014.ROA);

CharacteristicsTable.ROA(15) = mean(Data.Data2015.ROA);

CharacteristicsTable.ROE(1) = mean(OutliersROE2001);

CharacteristicsTable.ROE(2) = mean(Data.Data2002.ROE);

CharacteristicsTable.ROE(3) = mean(Data.Data2003.ROE);

CharacteristicsTable.ROE(4) = mean(Data.Data2004.ROE);

CharacteristicsTable.ROE(5) = mean(Data.Data2005.ROE);

CharacteristicsTable.ROE(6) = mean(Data.Data2006.ROE);

CharacteristicsTable.ROE(7) = mean(OutliersROE2007);

CharacteristicsTable.ROE(8) = mean(Data.Data2008.ROE);

CharacteristicsTable.ROE(9) = mean(Data.Data2009.ROE);

CharacteristicsTable.ROE(10) = mean(Data.Data2010.ROE);

CharacteristicsTable.ROE(11) = mean(Data.Data2011.ROE);

CharacteristicsTable.ROE(12) = mean(Data.Data2012.ROE);

CharacteristicsTable.ROE(13) = mean(Data.Data2013.ROE);

CharacteristicsTable.ROE(14) = mean(Data.Data2014.ROE);

CharacteristicsTable.ROE(15) = mean(Data.Data2015.ROE);

CharacteristicsTable.NumberOfEmployees(1) = mean(Data.Data2001.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(2) = mean(Data.Data2002.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(3) = mean(Data.Data2003.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(4) = mean(Data.Data2004.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(5) = mean(Data.Data2005.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(6) = mean(Data.Data2006.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(7) = mean(Data.Data2007.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(8) = mean(Data.Data2008.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(9) = mean(Data.Data2009.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(10) = mean(Data.Data2010.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(11) = mean(Data.Data2011.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(12) = mean(Data.Data2012.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(13) = mean(Data.Data2013.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(14) = mean(Data.Data2014.NumberOfEmployees);

CharacteristicsTable.NumberOfEmployees(15) = mean(Data.Data2015.NumberOfEmployees);

%% Import table to EXCEL

writetable(CharacteristicsTable,'CharacteristicsTable.xlsx')

%% Top Decile 2001

Data.Data2001 = sortrows(Data.Data2001,'Revenue','descend');

Third = round(height(Data.Data2001)./3);

DataTop.Data2001 = Data.Data2001(1:Third,:);

%% Mid Decile 2001

CutoffTop = round(height(Data.Data2001)./3);

TwoThird = Third\*2;

DataMid.Data2001 = Data.Data2001(Third:TwoThird,:);

%% Bottom Decile 2001

DataBottom.Data2001 = Data.Data2001(TwoThird:end,:);

%% Top Decile 2002

Data.Data2002 = sortrows(Data.Data2002,'Revenue','descend');

Third = round(height(Data.Data2002)./3);

DataTop.Data2002 = Data.Data2002(1:Third,:);

%% Mid Decile 2002

CutoffTop = round(height(Data.Data2002)./3);

TwoThird = Third\*2;

DataMid.Data2002 = Data.Data2002(Third:TwoThird,:);

%% Bottom Decile 2002

DataBottom.Data2002 = Data.Data2002(TwoThird:end,:);

%% Top Decile 2003

Data.Data2003 = sortrows(Data.Data2003,'Revenue','descend');

Third = round(height(Data.Data2003)./3);

DataTop.Data2003 = Data.Data2003(1:Third,:);

%% Mid Decile 2003

CutoffTop = round(height(Data.Data2003)./3);

TwoThird = Third\*2;

DataMid.Data2003 = Data.Data2003(Third:TwoThird,:);

%% Bottom Decile 2003

DataBottom.Data2003 = Data.Data2003(TwoThird:end,:);

%% Top Decile 2004

Data.Data2004 = sortrows(Data.Data2004,'Revenue','descend');

Third = round(height(Data.Data2004)./3);

DataTop.Data2004 = Data.Data2004(1:Third,:);

%% Mid Decile 2004

CutoffTop = round(height(Data.Data2004)./3);

TwoThird = Third\*2;

DataMid.Data2004 = Data.Data2004(Third:TwoThird,:);

%% Bottom Decile 2004

DataBottom.Data2004 = Data.Data2004(TwoThird:end,:);

%% Top Decile 2005

Data.Data2005 = sortrows(Data.Data2005,'Revenue','descend');

Third = round(height(Data.Data2005)./3);

DataTop.Data2005 = Data.Data2005(1:Third,:);

%% Mid Decile 2005

CutoffTop = round(height(Data.Data2005)./3);

TwoThird = Third\*2;

DataMid.Data2005 = Data.Data2005(Third:TwoThird,:);

%% Bottom Decile 2005

DataBottom.Data2005 = Data.Data2005(TwoThird:end,:);

%% Top Decile 2006

Data.Data2006 = sortrows(Data.Data2006,'Revenue','descend');

Third = round(height(Data.Data2006)./3);

DataTop.Data2006 = Data.Data2006(1:Third,:);

%% Mid Decile 2006

CutoffTop = round(height(Data.Data2006)./3);

TwoThird = Third\*2;

DataMid.Data2006 = Data.Data2006(Third:TwoThird,:);

%% Bottom Decile 2006

DataBottom.Data2006 = Data.Data2006(TwoThird:end,:);

%% Top Decile 2007

Data.Data2007 = sortrows(Data.Data2007,'Revenue','descend');

Third = round(height(Data.Data2007)./3);

DataTop.Data2007 = Data.Data2007(1:Third,:);

%% Mid Decile 2007

CutoffTop = round(height(Data.Data2007)./3);

TwoThird = Third\*2;

DataMid.Data2007 = Data.Data2007(Third:TwoThird,:);

%% Bottom Decile 2007

DataBottom.Data2007 = Data.Data2007(TwoThird:end,:);

%% Top Decile 2008

Data.Data2008 = sortrows(Data.Data2008,'Revenue','descend');

Third = round(height(Data.Data2008)./3);

DataTop.Data2008 = Data.Data2008(1:Third,:);

%% Mid Decile 2008

CutoffTop = round(height(Data.Data2008)./3);

TwoThird = Third\*2;

DataMid.Data2008 = Data.Data2008(Third:TwoThird,:);

%% Bottom Decile 2008

DataBottom.Data2008 = Data.Data2008(TwoThird:end,:);

%% Top Decile 2009

Data.Data2000 = sortrows(Data.Data2009,'Revenue','descend');

Third = round(height(Data.Data2009)./3);

DataTop.Data2009 = Data.Data2009(1:Third,:);

%% Mid Decile 2009

CutoffTop = round(height(Data.Data2009)./3);

TwoThird = Third\*2;

DataMid.Data2009 = Data.Data2009(Third:TwoThird,:);

%% Bottom Decile 2009

DataBottom.Data2009 = Data.Data2009(TwoThird:end,:);

%% Top Decile 2010

Data.Data2010 = sortrows(Data.Data2010,'Revenue','descend');

Third = round(height(Data.Data2010)./3);

DataTop.Data2010 = Data.Data2010(1:Third,:);

%% Mid Decile 2010

CutoffTop = round(height(Data.Data2010)./3);

TwoThird = Third\*2;

DataMid.Data2010 = Data.Data2010(Third:TwoThird,:);

%% Bottom Decile 2010

DataBottom.Data2010 = Data.Data2010(TwoThird:end,:);

%% Top Decile 2011

Data.Data2011 = sortrows(Data.Data2011,'Revenue','descend');

Third = round(height(Data.Data2011)./3);

DataTop.Data2011 = Data.Data2011(1:Third,:);

%% Mid Decile 2011

CutoffTop = round(height(Data.Data2011)./3);

TwoThird = Third\*2;

DataMid.Data2011 = Data.Data2011(Third:TwoThird,:);

%% Bottom Decile 2011

DataBottom.Data2011 = Data.Data2011(TwoThird:end,:);

%% Top Decile 2012

Data.Data2012 = sortrows(Data.Data2012,'Revenue','descend');

Third = round(height(Data.Data2012)./3);

DataTop.Data2012 = Data.Data2012(1:Third,:);

%% Mid Decile 2012

CutoffTop = round(height(Data.Data2012)./3);

TwoThird = Third\*2;

DataMid.Data2012 = Data.Data2012(Third:TwoThird,:);

%% Bottom Decile 2012

DataBottom.Data2012 = Data.Data2012(TwoThird:end,:);

%% Top Decile 2013

Data.Data2013 = sortrows(Data.Data2013,'Revenue','descend');

Third = round(height(Data.Data2013)./3);

DataTop.Data2013 = Data.Data2013(1:Third,:);

%% Mid Decile 2013

CutoffTop = round(height(Data.Data2013)./3);

TwoThird = Third\*2;

DataMid.Data2013 = Data.Data2013(Third:TwoThird,:);

%% Bottom Decile 2013

DataBottom.Data2013 = Data.Data2013(TwoThird:end,:);

%% Top Decile 2014

Data.Data2014 = sortrows(Data.Data2014,'Revenue','descend');

Third = round(height(Data.Data2014)./3);

DataTop.Data2014 = Data.Data2014(1:Third,:);

%% Mid Decile 2014

CutoffTop = round(height(Data.Data2014)./3);

TwoThird = Third\*2;

DataMid.Data2014 = Data.Data2014(Third:TwoThird,:);

%% Bottom Decile 2014

DataBottom.Data2014 = Data.Data2014(TwoThird:end,:);

%% Top Decile 2015

Data.Data2015 = sortrows(Data.Data2015,'Revenue','descend');

Third = round(height(Data.Data2015)./3);

DataTop.Data2015 = Data.Data2015(1:Third,:);

%% Mid Decile 2015

CutoffTop = round(height(Data.Data2015)./3);

TwoThird = Third\*2;

DataMid.Data2015 = Data.Data2015(Third:TwoThird,:);

%% Bottom Decile 2015

DataBottom.Data2015 = Data.Data2015(TwoThird:end,:);

%% Descriptive table

DescriptiveTable.BottomDecileShare(1) = mean(DataBottom.Data2001.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(2) = mean(DataBottom.Data2002.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(3) = mean(DataBottom.Data2003.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(4) = mean(DataBottom.Data2004.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(5) = mean(DataBottom.Data2005.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(6) = mean(DataBottom.Data2006.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(7) = mean(DataBottom.Data2007.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(8) = mean(DataBottom.Data2008.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(9) = mean(DataBottom.Data2009.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(10) = mean(DataBottom.Data2010.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(11) = mean(DataBottom.Data2011.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(12) = mean(DataBottom.Data2012.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(13) = mean(DataBottom.Data2013.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(14) = mean(DataBottom.Data2014.LargestFamilySumUltOwnership);

DescriptiveTable.BottomDecileShare(15) = mean(DataBottom.Data2015.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(1) = mean(DataMid.Data2001.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(2) = mean(DataMid.Data2002.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(3) = mean(DataMid.Data2003.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(4) = mean(DataMid.Data2004.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(5) = mean(DataMid.Data2005.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(6) = mean(DataMid.Data2006.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(7) = mean(DataMid.Data2007.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(8) = mean(DataMid.Data2008.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(9) = mean(DataMid.Data2009.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(10) = mean(DataMid.Data2010.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(11) = mean(DataMid.Data2011.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(12) = mean(DataMid.Data2012.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(13) = mean(DataMid.Data2013.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(14) = mean(DataMid.Data2014.LargestFamilySumUltOwnership);

DescriptiveTable.MidDecileShare(15) = mean(DataMid.Data2015.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(1) = mean(DataTop.Data2001.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(2) = mean(DataTop.Data2002.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(3) = mean(DataTop.Data2003.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(4) = mean(DataTop.Data2004.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(5) = mean(DataTop.Data2005.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(6) = mean(DataTop.Data2006.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(7) = mean(DataTop.Data2007.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(8) = mean(DataTop.Data2008.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(9) = mean(DataTop.Data2009.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(10) = mean(DataTop.Data2010.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(11) = mean(DataTop.Data2011.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(12) = mean(DataTop.Data2012.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(13) = mean(DataTop.Data2013.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(14) = mean(DataTop.Data2014.LargestFamilySumUltOwnership);

DescriptiveTable.TopDecileShare(15) = mean(DataTop.Data2015.LargestFamilySumUltOwnership);

%% Import table to EXCEL

writetable(DescriptiveTable,'DescriptiveTable.xlsx');