

## SAS – Homework.

On your CD you will find a comma separated variable file called MBAHomework.csv.

This file contains 21 observations from a study undertaken by a large city bank of average account size (ACCTSIZE) in each of its branches to per capital income (INCOME) in the corresponding zip code area, number of business accounts (BUSIN), and number of competitive bank branches (COMPET).

Your task, should you chose to accept it, is:

1. Write a SAS program to read the data from the comma-separated file into a SAS Dataset.

```
PROC IMPORT DATAFILE="F:\MBAHomework.csv"  
    OUT=MBA.Homework  
    DBMS=dlm  
    REPLACE;  
    DELIMITER=',';  
    GETNAMES=yes;  
RUN;
```

2. Write a SAS program to print the data within SAS.

```
PROC PRINT DATA=MBA.Homework;  
RUN;
```

3. Write a SAS program to perform Regression Analysis of the relationship between average account size and the other variables. Use the SAS/STAT Procedure “Reg” and a forward selection method.

(I have cut and pasted relevant parts of the SAS Online Documentation into the appendix to this document.)

```
PROC REG DATA=MBA.Homework;  
    MODEL ACCTSIZE=INCOME BUSINESS COMPET /SELECTION= FORWARD;  
RUN;
```

4. Look at the results in the results window and expand them using the + tabs until you can see the results of Step 3. From the Parameter Estimates page, type the regression equation parameters into the following equation.

$$\text{ACCTSIZE} = 0.15085 + 0.26529 \text{ INCOME} - 0.00289 \text{ BUSINESS} + /-0/00760 \text{ COMPET}$$

5. Write a SAS program to provide Correlation and Covariance analysis of the data.

```
PROC CORR  
    COV
```

```
DATA=MBA.Homework;  
RUN;
```

6. Print out the pages of this document up to and including this line and hand it in.