Q1

filename cwd 'C:\Users\ayoyi\OneDrive - De Montfort University\Analytics programming\Week 5';

**proc** **format**;

invalue rating

'good' = **1**

'bad' = **0**

other = **.**

;

**run**;

**data** RATINGS.RATINGS;

infile cwd (psa05-credrating.dat)

;

input

customer

Rating

;

informat

rating rating.

;

**run**;

**PROC** **means**

data = RATINGS N NMISS MIN MAX;

var

customer

;

**run**;

**proc** **freq**;

tables

rating

;

**run**;

**proc** **print**

data = RATINGS

label

noobs

;

**run**;

Q2

filename cwd 'C:\Users\ayoyi\OneDrive - De Montfort University\Analytics programming\Week 5';

**data** DATES;

infile

cwd (psa05-creddates.csv)

dsd

firstobs=**2**

;

input

customer

day\_rating

month\_rating

year\_rating

;

**run**;

**data** DATES\_EXT;

Set dates;

date\_rating = catx('/',put(day\_rating,z2.),put(month\_rating,z2.),year\_rating); /\* combines the days, months and years into a date format\*/

drop

day\_rating

month\_rating

year\_rating

;

**run**;

**proc** **means**

data = DATES\_EXT n nmiss min max

;

var

customer

;

**run**;

**proc** **print**

data = DATES\_EXT

label

noobs

;

**run**;

Q3

**proc** **sort**

data = DATES\_EXT;

by

customer; /\*sets common variable\*/

**run**;

**proc** **format**;

value rating

**0** = 'bad'

**1** = 'good'

**.** = 'missing'

other = 'ERROR'

;

**run**;

**Data** CREDIT;

merge customer Ratings Dates\_ext;

by customer; /\* merges using the common variable\*/

label

date\_rating = 'Date of Rating'

;

format

rating rating.

;

**run**;

**proc** **contents**

data= CREDIT

varnum;

**run**;

**proc** **print**

DATA = CREDIT

label

noobs;

**run**;

Q4

**DATA** CREDIT\_NEW;

set CREDIT;

MERGE customer(IN=fromcustomerx) ratings(IN=fromratingsx) dates\_ext(IN=fromdates\_extx);

by customer;

fromcustomer = fromcustomerx;

fromratings = fromcustomerx;

fromdates\_ext = fromdates\_extx;

**run**;

**PROC** **PRINT**

DATA = CREDIT\_NEW;

**RUN**;

**PROC** **FREQ**

DATA = CREDIT\_NEW;

TABLES fromcustomer\*fromratings\*fromdates\_ext;

**RUN**;

Q5

**proc** **format**;

value rating

**0** = 'bad'

**1** = 'good'

**.** = 'missing'

other = 'ERROR'

;

**run**;

**proc** **sql**;

create table CREDIT1 as

select customer.\*,

ratings.rating,

dates\_ext.date\_rating

from customer full join ratings

on customer.customer=ratings.customer

full join dates\_ext

on ratings.customer=dates\_ext.customer

;

**quit**;

**data** CREDIT1;

set CREDIT1;

label

date\_rating = 'Date of Rating'

;

format

rating rating.

;

**run**;

**proc** **freq**

data = CREDIT;

Tables

account

history

purpose

savings

employment

married

debtors

resident

property

plans

housing

job

telephone

foreign

rating

;

**RUN**;

**PROC** **MEANS**

data = CUSTOMER N NMISS MIN MAX RANGE;

var

customer

duration

amount

instalment

age

credits

dependents

;

**run**;

**proc** **print**

data = CREDIT1(obs=**10**)

label

noobs;

**run**;