Q1

input /\* comments unnecessary due to labels and formats \*/

customer

account

duration

history

purpose $

amount

savings

employment

instalment

married

debtors

resident

property

age

plans

housing

credits

job

dependents

telephone

foreign

;

Q2

**Data** MEXRATE202002;

infile

      datalines

      dsd

;

length

      country $ **32**

      currency $ **32**

;

input

      country $

      currency $

      code $

      units

      Start

      End

;

label

      code = 'currency code'

      units = 'currency units per £1'

      Start = 'start date'

      End = 'end date'

;

informat

      Start ddmmyy10.

      End  ddmmyy10.

;

format

      Start ddmmyy10.

      End  ddmmyy10.

;

datalines;

Abu Dhabi,Dirham,AED,4.82,01/02/2020,29/02/2020

Albania,Lek,ALL,144.8,01/02/2020,29/02/2020

Algeria,Dinar,DZD,157.24,01/02/2020,29/02/2020

Angola,Readj Kwanza,AOA,648.1,01/02/2020,29/02/2020

Antigua,E Caribbean Dollar,XCD,3.5479,01/02/2020,29/02/2020

Argentina,Peso,ARS,78.99,01/02/2020,29/02/2020

Armenia,Dram,AMD,628.34,01/02/2020,29/02/2020

Aruba,Florin,AWG,2.3521,01/02/2020,29/02/2020

Australia,Dollar,AUD,1.9213,01/02/2020,29/02/2020

Azerbaijan,New Manat,AZN,2.2293,01/02/2020,29/02/2020

Bahamas,Dollar,BSD,1.314,01/02/2020,29/02/2020

Bahrain,Dinar,BHD,0.4955,01/02/2020,29/02/2020

Bangladesh,Taka,BDT,111.75,01/02/2020,29/02/2020

Barbados,Dollar,BBD,2.6281,01/02/2020,29/02/2020

Belarus,Rouble,BYN,2.782,01/02/2020,29/02/2020

Belize,Dollar,BZD,2.6281,01/02/2020,29/02/2020

Benin,CFA Franc,XOF,778.25,01/02/2020,29/02/2020

Bermuda,Dollar (US),BMD,1.314,01/02/2020,29/02/2020

Bhutan,Ngultrum,BTN,93.55,01/02/2020,29/02/2020

Bolivia,Boliviano,BOB,9.08,01/02/2020,29/02/2020

Bosnia- Herzegovinia,Marka,BAM,2.2305,01/02/2020,29/02/2020

Botswana,Pula,BWP,14.09,01/02/2020,29/02/2020

Brazil,Real,BRL,5.4965,01/02/2020,29/02/2020

Brunei,Dollar,BND,1.7731,01/02/2020,29/02/2020

Bulgaria,Lev,BGN,2.3206,01/02/2020,29/02/2020

Burkina Faso,CFA Franc,XOF,778.25,01/02/2020,29/02/2020

Burundi,Franc,BIF,2472.74,01/02/2020,29/02/2020

Cambodia,Riel,KHR,5321.87,01/02/2020,29/02/2020

Cameroon Republic,CFA Franc,XAF,778.25,01/02/2020,29/02/2020

Canada,Dollar,CAD,1.7239,01/02/2020,29/02/2020

Cape Verde Islands,Escudo,CVE,130.94,01/02/2020,29/02/2020

Cayman Islands,Dollar,KYD,1.0775,01/02/2020,29/02/2020

Central African Republic,CFA Franc,XAF,778.25,01/02/2020,29/02/2020

Chad,CFA Franc,XAF,778.25,01/02/2020,29/02/2020

Chile,Peso,CLP,1014.63,01/02/2020,29/02/2020

China,Yuan,CNY,9.0685,01/02/2020,29/02/2020

Colombia,Peso,COP,4381.54,01/02/2020,29/02/2020

Comoros,Franc,KMF,583.69,01/02/2020,29/02/2020

Congo (Brazaville),CFA Franc,XAF,778.25,01/02/2020,29/02/2020

Congo (DemRep),Congo Fr,CDF,2221.39,01/02/2020,29/02/2020

Costa Rica,Colon,CRC,744.91,01/02/2020,29/02/2020

Cote d'Ivoire,CFA Franc,XOF,778.25,01/02/2020,29/02/2020

Croatia,Kuna,HRK,8.8256,01/02/2020,29/02/2020

Cuba,Peso,CUP,1.314,01/02/2020,29/02/2020

Czech Republic,Koruna,CZK,29.82,01/02/2020,29/02/2020

Denmark,Krone,DKK,8.8662,01/02/2020,29/02/2020

Djibouti,Franc,DJF,233.53,01/02/2020,29/02/2020

Dominica,E Caribbean Dollar,XCD,3.5479,01/02/2020,29/02/2020

Dominican Republic,Peso,DOP,70.24,01/02/2020,29/02/2020

Dubai,Dirham,AED,4.82,01/02/2020,29/02/2020

Ecuador,Dollar,ECS,1.314,01/02/2020,29/02/2020

Egypt,Pound,EGP,20.76,01/02/2020,29/02/2020

El Salvador,Colon,SVC,11.49,01/02/2020,29/02/2020

Equatorial Guinea,CFA Franc,XAF,778.25,01/02/2020,29/02/2020

Eritrea,Nakfa,ERN,19.71,01/02/2020,29/02/2020

Ethiopia,Birr,ETB,42.08,01/02/2020,29/02/2020

Eurozone,Euro,EUR,1.1864,01/02/2020,29/02/2020

Fiji Islands,Dollar,FJD,2.8538,01/02/2020,29/02/2020

Fr. Polynesia,CFP Franc,XPF,141.58,01/02/2020,29/02/2020

Gabon,CFA Franc,XAF,778.25,01/02/2020,29/02/2020

Gambia,Dalasi,GMD,67.34,01/02/2020,29/02/2020

Georgia,Lari,GEL,3.7871,01/02/2020,29/02/2020

Ghana,Cedi,GHS,7.4112,01/02/2020,29/02/2020

Grenada,E Caribbean Dollar,XCD,3.5479,01/02/2020,29/02/2020

Guatemala,Quetzal,GTQ,10.1,01/02/2020,29/02/2020

Guinea Bissau,CFA Franc,XOF,778.25,01/02/2020,29/02/2020

Guinea Republic,Franc,GNF,12531.37,01/02/2020,29/02/2020

Guyana,Dollar,GYD,274.55,01/02/2020,29/02/2020

Haiti,Gourde,HTG,121.07,01/02/2020,29/02/2020

Honduras,Lempira,HNL,32.39,01/02/2020,29/02/2020

Hong Kong,Dollar,HKD,10.21,01/02/2020,29/02/2020

Hungary,Forint,HUF,398.7,01/02/2020,29/02/2020

Iceland,Krona,ISK,163.49,01/02/2020,29/02/2020

India,Rupee,INR,93.55,01/02/2020,29/02/2020

Indonesia,Rupiah,IDR,17929.46,01/02/2020,29/02/2020

Iraq,Dinar,IQD,1564.36,01/02/2020,29/02/2020

Israel,Shekel,ILS,4.5495,01/02/2020,29/02/2020

Jamaica,Dollar,JMD,180.12,01/02/2020,29/02/2020

Japan,Yen,JPY,144.42,01/02/2020,29/02/2020

Jordan,Dinar,JOD,0.9317,01/02/2020,29/02/2020

Kazakhstan,Tenge,KZT,495.25,01/02/2020,29/02/2020

Kenya,Schilling,KES,132.52,01/02/2020,29/02/2020

Kuwait,Dinar,KWD,0.3991,01/02/2020,29/02/2020

Kyrgyz Republic,Som,KGS,91.58,01/02/2020,29/02/2020

Lao People's Dem Rep,Kip,LAK,11688.41,01/02/2020,29/02/2020

Lebanon,Pound,LBP,1986.83,01/02/2020,29/02/2020

Lesotho,Loti,LSL,18.84,01/02/2020,29/02/2020

Liberia,Dollar (US),LRD,1.314,01/02/2020,29/02/2020

Libya,Dinar,LYD,1.8397,01/02/2020,29/02/2020

Macao,Pataca,MOP,10.51,01/02/2020,29/02/2020

Macedonia,Denar,MKD,73.06,01/02/2020,29/02/2020

Madagascar,Malagasy Ariary,MGA,4861.96,01/02/2020,29/02/2020

Malawi,Kwacha,MWK,967.81,01/02/2020,29/02/2020

Malaysia,Ringgit,MYR,5.3436,01/02/2020,29/02/2020

Maldive Islands,Rufiyaa,MVR,20.36,01/02/2020,29/02/2020

Mali Republic,CFA Franc,XOF,778.25,01/02/2020,29/02/2020

Mauritania,Ouguiya,MRO,46.95,01/02/2020,29/02/2020

Mauritius,Rupee,MUR,48.32,01/02/2020,29/02/2020

Mexico,Mexican Peso,MXN,24.55,01/02/2020,29/02/2020

Moldova,Leu,MDL,23.25,01/02/2020,29/02/2020

Mongolia,Tugrik,MNT,3609.67,01/02/2020,29/02/2020

Montserrat,E Caribbean Dollar,XCD,3.5479,01/02/2020,29/02/2020

Morocco,Dirham,MAD,12.63,01/02/2020,29/02/2020

Mozambique,Metical,MZN,83.4,01/02/2020,29/02/2020

Myanmar,Kyat,MMK,1930.07,01/02/2020,29/02/2020

Nepal,Rupee,NPR,149.68,01/02/2020,29/02/2020

New Caledonia,CFP Franc,XPF,141.58,01/02/2020,29/02/2020

New Zealand,Dollar,NZD,1.9929,01/02/2020,29/02/2020

Nicaragua,Gold Cordoba,NIO,44.54,01/02/2020,29/02/2020

Niger Republic,CFA Franc,XOF,778.25,01/02/2020,29/02/2020

Nigeria,Naira,NGN,475.35,01/02/2020,29/02/2020

Norway,Norwegian Krone,NOK,11.81,01/02/2020,29/02/2020

Oman,Rial,OMR,0.5059,01/02/2020,29/02/2020

Pakistan,Rupee,PKR,203.07,01/02/2020,29/02/2020

Panama,Balboa,PAB,1.314,01/02/2020,29/02/2020

Papua New Guinea,Kina,PGK,4.481,01/02/2020,29/02/2020

Paraguay,Guarani,PYG,8577.12,01/02/2020,29/02/2020

Peru,New Sol,PEN,4.3543,01/02/2020,29/02/2020

Philippines,Peso,PHP,66.9,01/02/2020,29/02/2020

Poland,Zloty,PLN,5.0315,01/02/2020,29/02/2020

Qatar,Riyal,QAR,4.7844,01/02/2020,29/02/2020

Romania,New Leu,RON,5.6692,01/02/2020,29/02/2020

Russia,Rouble,RUB,81.54,01/02/2020,29/02/2020

Rwanda,Franc,RWF,1228.68,01/02/2020,29/02/2020

Saotome & Principe,Dobra,STD,29237.5,01/02/2020,29/02/2020

Saudi Arabia,Riyal,SAR,4.9294,01/02/2020,29/02/2020

Senegal,CFA Franc,XOF,778.25,01/02/2020,29/02/2020

Serbia,Dinar,RSD,139.46,01/02/2020,29/02/2020

Seychelles,Rupee,SCR,18.34,01/02/2020,29/02/2020

Sierra Leone,Leone,SLL,12976.17,01/02/2020,29/02/2020

Singapore,Dollar,SGD,1.7731,01/02/2020,29/02/2020

Soloman Islands,Dollar,SBD,10.9,01/02/2020,29/02/2020

Somali Republic,Schilling,SOS,762.14,01/02/2020,29/02/2020

South Africa,Rand,ZAR,18.84,01/02/2020,29/02/2020

South Korea,Won,KRW,1530.26,01/02/2020,29/02/2020

Sri Lanka,Rupee,LKR,238.49,01/02/2020,29/02/2020

St Christopher & Anguilla,E Caribbean Dollar,XCD,3.5479,01/02/2020,29/02/2020

St Lucia,E Caribbean Dollar,XCD,3.5479,01/02/2020,29/02/2020

St Vincent,E Caribbean Dollar,XCD,3.5479,01/02/2020,29/02/2020

Sudan Republic,Pound,SDG,59.55,01/02/2020,29/02/2020

Surinam,Dollar,SRD,9.8001,01/02/2020,29/02/2020

Swaziland,Lilangeni,SZL,18.84,01/02/2020,29/02/2020

Sweden,Krona,SEK,12.51,01/02/2020,29/02/2020

Switzerland,Franc,CHF,1.2748,01/02/2020,29/02/2020

Taiwan,Dollar,TWD,39.39,01/02/2020,29/02/2020

Tanzania,Schilling,TZS,3027.55,01/02/2020,29/02/2020

Thailand,Baht,THB,39.9,01/02/2020,29/02/2020

Togo Republic,CFA Franc,XOF,778.25,01/02/2020,29/02/2020

Tonga Islands,Pa'anga (AUS),TOP,1.9213,01/02/2020,29/02/2020

Trinidad/Tobago,Dollar,TTD,8.9019,01/02/2020,29/02/2020

Tunisia,Dinar,TND,3.7086,01/02/2020,29/02/2020

Turkey,Turkish  Lira,TRY,7.7782,01/02/2020,29/02/2020

Turkmenistan,New Manat,TMT,4.6123,01/02/2020,29/02/2020

UAE,Dirham,AED,4.82,01/02/2020,29/02/2020

Uganda,Schilling,UGX,4829.1,01/02/2020,29/02/2020

Ukraine,Hryvnia,UAH,32.12,01/02/2020,29/02/2020

Uruguay,Peso,UYU,49.07,01/02/2020,29/02/2020

USA,Dollar,USD,1.314,01/02/2020,29/02/2020

Uzbekistan,Sum,UZS,12545.24,01/02/2020,29/02/2020

Vanuatu,Vatu,VUV,153.17,01/02/2020,29/02/2020

Venezuela,Bolivar Fuerte,VEF,326591,01/02/2020,29/02/2020

Vietnam,Dong,VND,30447.05,01/02/2020,29/02/2020

Wallis & Futuna Islands,CFP Franc,XPF,141.58,01/02/2020,29/02/2020

Western Samoa,Tala,WST,3.4662,01/02/2020,29/02/2020

Yemen (Rep of),Rial,YER,328.37,01/02/2020,29/02/2020

Zambia,Kwacha,ZMW,19.15,01/02/2020,29/02/2020

Zimbabwe,Dollar,ZWL,475.55,01/02/2020,29/02/2020

;

;**run**

Q3

**PROC** **IMPORT** OUT= WORK.EXRATE

DATAFILE= "C:\Users\p2577940\OneDrive - De Montfort Universi

ty\Analytics programming\Week 4\exrates.CSV"

DBMS=CSV REPLACE;

GETNAMES=YES;

GUESSINGROWS=**50**;

DATAROW=**2**;

label

var4 = 'Currency units per £1';

**RUN**;

**proc** **contents**

data = work.exrate

varnum

;

**run**;

**proc** **print**

data=work.exrate;

**run**;

Q4

**PROC** **IMPORT** OUT= WORK.NHFD

DATAFILE= "C:\Users\ayoyi\OneDrive - De Montfort University\

Analytics programming\Week 4\NHFD2019.xlsx"

DBMS=EXCEL REPLACE;

RANGE="'NHFD Facilities Audit 2019$'";

GETNAMES=YES;

MIXED=NO;

SCANTEXT=YES;

USEDATE=YES;

SCANTIME=YES;

LABEL

Protocols\_for\_prioritisation\_of\_ = 'Protocols for prioritisation of hip fractures at the start of trauma lists'

Protocols\_for\_Surgeon\_rota\_consi = 'Protocols for Surgeon rota consisting of consecutive trauma theatre days oncall:'

Protocols\_for\_Anaesthetist\_rota\_ = 'Protocols for Anaesthetist rota consisting of consecutive trauma theatre days oncall:'

Protocols\_for\_fluids\_may\_be\_give = 'Protocols for fluids may be given up until patient sent to theatre:'

Promoting\_use\_of\_energy\_suppleme = 'Promoting use of energy supplement juice drinks as part of pre-op clear fluid regime?'

Specifying\_a\_standardised\_approa = 'Specifying a standardised approach to use of vasopressors to optimise BP:'

Specifying\_near\_patient\_measurem = 'Specifying near patient measurement of Hb before they leave recovery:'

requiring\_documentation\_of\_BP\_th = 'Requiring documentation of BP thresholds before patient leaves recovery:'

Orthogeriatric\_consultants\_traum = 'Orthogeriatric consultants trauma/hip fracture wards weekly hours?'

Orthogeriatric\_staff\_gradestraum = 'Orthogeriatric staff gradestrauma/hip fracture wards weekly hours?'

Non\_medical\_orthogeriatric\_suppo = 'Non-medical orthogeriatric support time work in orthopaedic trauma/hip fracture wards hours?'

;

**RUN**;

**PROC** **PRINT**

DATA = WORK.NHFD;

**RUN**;

Q5

**data** EXPERIMENT;

infile

datalines;

Input

ventilation

folate\_level

@@

;

datalines;

1 243 2 206 3 241

1 251 2 210 3 258

1 275 2 226 3 270

1 291 2 249 3 293

1 347 2 255 3 328

1 354 2 273

1 380 2 285

1 392 2 295

2 309

;

**run**;

**proc** **print**

data = EXPERIMENT;

**run**;

Q6

**data** PhysicalFitness;

infile

datalines;

INPUT

participant\_group$

Age

Weight

Oxygen

RunTime

RestPulse

RunPulse

MaxPulse

@@; /\*handles two data items per dataline\*/

datalines;

r 44 89.47 44.609 11.37 62 178 182 g 40 75.07 45.313 10.07 62 185 185

g 44 85.84 54.297 8.65 45 156 168 b 42 68.15 59.571 8.17 40 166 172

r 38 89.02 49.874 9.22 55 178 180 g 47 77.45 44.811 11.63 58 176 176

r 40 75.98 45.681 11.95 70 176 180 g 43 81.19 49.091 10.85 64 162 170

g 44 81.42 39.442 13.08 63 174 176 b 38 81.87 60.055 8.63 48 170 186

b 44 73.03 50.541 10.13 45 168 168 r 45 87.66 37.388 14.03 56 186 192

b 45 66.45 44.754 11.12 51 176 176 r 47 79.15 47.273 10.60 47 162 164

g 54 83.12 51.855 10.33 50 166 170 b 49 81.42 49.156 8.95 44 180 185

g 51 69.63 40.836 10.95 57 168 172 b 51 77.91 46.672 10.00 48 162 168

r 48 91.63 46.774 10.25 48 162 164 g 49 73.37 50.388 10.08 67 168 168

r 57 73.37 39.407 12.63 58 174 176 g 54 79.38 46.080 11.17 62 156 165

g 52 76.32 45.441 9.63 48 164 166 b 50 70.87 54.625 8.92 48 146 155

g 51 67.25 45.118 11.08 48 172 172 b 54 91.63 39.203 12.88 44 168 172

b 51 73.71 45.790 10.47 59 186 188 r 57 59.08 50.545 9.93 49 148 155

b 49 76.32 48.673 9.40 56 186 188 r 48 61.24 47.920 11.50 52 170 176

b 52 82.78 47.467 10.50 53 170 172

;

**run**;

**proc** **sql**;

select

participant\_group,

Age,

Weight,

Oxygen,

RunTime,

RestPulse,

RunPulse,

MaxPulse

from physicalfitness

where participant\_group = 'g'

;

**quit**;

Q7

filename cwd 'C:\Users\ayoyi\OneDrive - De Montfort University\Analytics programming\Week 4';

**data** EXAMPLE;

infile cwd (example2d.dat)

lrecl=**100**;

input

/\*#=line variables column \*/

#**1** ID **1**-**5** Line **6**-**7** v1 **8**-**15**

#**2** v2 **19**-**21** v3 $**58**-**59** v4 $**79**-**83**

#**3** v5 **20**

#**11** v6 **14**-**20**

;

**run**;

**proc** **print**

data = EXAMPLE;

**run**;