

Module Code

MANG1041

Assignment Title

Individual Coursework

Student ID

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/*Task 1 {Import the data from names.csv to SAS}*/

```
PROC IMPORT DATAFILE='/home/u63290591/sasuser.v94/names.csv' DBMS=csv
  /*PROC IMPORT tell SAS to import "names.csv" files*/
  /*DBMS specifies the type of data to import is CSV*/
OUT=work.names REPLACE;
  /*OUT option tells SAS to put the new the new SAS dataset "names" in the Work library*/
  /*REPLACE statement tells SAS if there is an existing dataset in SAS's memory with this
  name, it should be overwritten*/
RUN;
```

/*Task 2 {Create a new data set(female_name)that only contains those names which were given to female babies. Include only the variables name and count}*/

```
DATA work.female_names;
  /*DATA tells SAS to create a "female_names" dataset in the Work library*/
SET work.names;
  /*The function of the SET statement is to process existing "names" SAS datasets in Work
  library as input for DATA step above*/
WHERE gender='F';
  /*WHERE statement tell SAS only selects the observation that "gender" is "female" in
  "names" SAS datasets only*/
DROP gender;
  /*DROP option tells SAS to drop variable "gender" from a "names" dataset*/
RUN;
```

/*Task 3 {In the data female_names:knowing that the total number of female babies is 180623104,create a new variable(fraction)that is equal to count divided by the total number of female babies}*/

```
DATA work.female_names;
  /*DATA tells SAS to create a "female_names" dataset in the Work library*/
SET work.names;
  /*The function of the SET statement is to process existing "names" SAS datasets in Work
  library as input for DATA step above*/
WHERE gender='F';
  /*WHERE statement tell SAS only selects the observation that "gender" is "female" in
  "names" SAS datasets only*/
DROP gender;
  /*DROP option tells SAS to drop variable "gender" from a "names" dataset*/
Fraction=count/180623104;
  /*Create a new variable "Fraction" that is equal to "count" divided by the total number
  of female babies "180623104" */
RUN;
```

/*Task 4 {Sort the data set female name by count(order:largest to smallest)}*/

DATA work.female_names;

*/*DATA tells SAS to create a "female_names" dataset in the Work library*/*

SET work.names;

*/*The function of the SET statement is to process existing "names" SAS datasets in Work library as input for DATA step above*/*

WHERE gender='F';

*/*WHERE statement tell SAS only selects the observation that "gender" is "female" in "names" SAS datasets only*/*

DROP gender;

*/*DROP option tells SAS to drop variable "gender" from a "names" dataset*/*

Fraction=count/180623104;

*/*Create a new variable "Fraction" that is equal to "count" divided by the total number of female babies "180623104" */*

RUN;

PROC SORT DATA=work.female_names;

*/*PROC SORT DATA tell SAS sort data from "female_names" dataset in the Work library */*

BY DESCENDING Count;

*/*The data is sorted first BY "count", in DESCENDING order.*/*

RUN;

/*Task 5 {Once the data set female_names is sorted, print the first 35 observations from the data set to find the most popular female names}*/

DATA work.female_names;

*/*DATA tells SAS to create a "female_names" dataset in the Work library*/*

SET work.names;

*/*The function of the SET statement is to process existing "names" SAS datasets in Work library as input for DATA step above*/*

WHERE gender='F';

*/*WHERE statement tell SAS only selects the observation that "gender" is "female" in "names" SAS datasets only*/*

DROP gender;

*/*DROP option tells SAS to drop variable "gender" from a "names" dataset*/*

Fraction=count/180623104;

*/*Create a new variable "Fraction" that is equal to "count" divided by the total number of female babies "180623104" */*

RUN;

PROC SORT DATA=work.female_names;

*/*PROC SORT DATA tell SAS sort data from "female_names" dataset in the Work library */*

BY DESCENDING Count;

*/*The data is sorted first BY "count", in DESCENDING order.*/*

RUN;

PROC PRINT DATA=work.female_names (OBS=35);

*/*OBS options tell SAS which range of first 35 observation numbers to PRINT*/*

RUN;

/*Task 6 {Create a new data set (male_names) that only contains those names which were given to male babies. Include only the variables name and count}*/

DATA work.male_names;

*/*DATA tells SAS to create a "male_names" dataset in the Work library*/*

SET work.names;

*/*The function of the SET statement is to process existing "names" SAS datasets in Work library as input for DATA step above*/*

WHERE gender='M';

*/*WHERE statement tell SAS only selects the observation that "gender" is "male" in "names" SAS datasets only*/*

DROP gender;

*/*DROP option tells SAS to drop variable "gender" from a "names" dataset*/*

RUN;

/*Task 7 {In the data set male_names: knowing that the total number of male babies is 184775046, create a new variable (fraction) that is equal to count divided by the total number of male babies}*/

DATA work.male_names;

*/*DATA tells SAS to create a "male_names" dataset in the Work library*/*

SET work.names;

*/*The function of the SET statement is to process existing "names" SAS datasets in Work library as input for DATA step above*/*

WHERE gender='M';

*/*WHERE statement tell SAS only selects the observation that "gender" is "male" in "names" SAS datasets only*/*

DROP gender;

*/*DROP option tells SAS to drop variable "gender" from a "names" dataset*/*

Fraction=count/184775046;

*/*Create a new variable "Fraction" that is equal to "count" divided by the total number of male babies "184775046" */*

RUN;

/*Task 8 {Sort the data set male_names by fraction (order: largest to smallest)}*/

DATA work.male_names;

*/*DATA tells SAS to create a "male_names" dataset in the Work library*/*

SET work.names;

*/*The function of the SET statement is to process existing "names" SAS datasets in Work library as input for DATA step above*/*

WHERE gender='M';

*/*WHERE statement tell SAS only selects the observation that "gender" is "male" in "names" SAS datasets only*/*

DROP gender;

*/*DROP option tells SAS to drop variable "gender" from a "names" dataset*/*

Fraction=count/184775046;

*/*Create a new variable "Fraction" that is equal to "count" divided by the total number of male babies "184775046" */*

RUN;

PROC SORT DATA=work.male_names;

*/*PROC SORT DATA tell SAS sort data from "male_names" dataset in the Work library */*

BY DESCENDING fraction;

*/*The data is sorted first BY "fraction", in DESCENDING order.*/*

RUN;

/*Task 9 {Once the data set male_names is sorted, print the data where fraction is greater than 0.005 to find the most popular male names}*/

DATA work.male_names;

*/*DATA tells SAS to create a "male_names" dataset in the Work library*/*

SET work.names;

*/*The function of the SET statement is to process existing "names" SAS datasets in Work library as input for DATA step above*/*

WHERE gender='M';

*/*WHERE statement tell SAS only selects the observation that "gender" is "male" in "names" SAS datasets only*/*

DROP gender;

*/*DROP option tells SAS to drop variable "gender" from a "names" dataset*/*

Fraction=count/184775046;

*/*Create a new variable "Fraction" that is equal to "count" divided by the total number of male babies "184775046" */*

RUN;

PROC SORT DATA=work.male_names;

*/*PROC SORT DATA tell SAS sort data from "male_names" dataset in the Work library */*

BY DESCENDING fraction;

*/*The data is sorted first BY "fraction", in DESCENDING order.*/*

RUN;

PROC PRINT DATA=work.male_names;

*/*PROC PRINT DATA tell SAS to print data from "male_names" dataset in the Work library*/*

WHERE fraction>0.005;

*/*WHERE statement tell SAS only selects the observation "fraction" is "greater than 0.005" from "male" in "names" SAS datasets */*

RUN;