**SAS GRADED ASSIGMENT BY AVIJIT MALLICK:**

**PATH: D:\Users\Jig15684\Practice\Avijit Mallick Graded assignment**

libname SAS "Y:\Practice\Graded assignment\Regression\SAS graded";

**run**;

/\*importing 36 months data sheet\*/

**PROC** **IMPORT** DATAFILE = "Z:\Assignments\Graded Assignment\Topic 6.3 - SAS\Loandetails.xlsx"

OUT = SAS.loan36

DBMS = xlsx

REPLACE;

sheet = "36 months";

getnames = yes;

**RUN**;

**data** sas.loan36;

set sas.loan36;

term = 36;

**run**;

**proc** **contents** data = sas.loan36;

**run**;

|  |
| --- |
| The WPS System |

The CONTENTS Procedure

| Data Set Name | LOAN36 |
| --- | --- |
| Member Type | DATA |
| Engine | WPD |
| Created | 16OCT2017:12:57:42 |
| Last Modified | 16OCT2017:12:57:42 |
| Observations | 11825 |
| Variables | 13 |
| Indexes | 0 |
| Observation Length | 101 |
| Deleted Observations | 0 |
| Data Set Type |  |
| Label |  |
| Compressed | NO |
| Sorted | NO |
| Data Representation | Little endian, IEEE Windows |
| Encoding | wlatin1 Windows-1252 Western |

| **Engine/Host Dependent Information** | |
| --- | --- |
| Data Set Page Size | 4096 |
| Number of Data Set Pages | 297 |
| First Data Page | 1 |
| Max Obs Per Page | 40 |
| Obs In First Data Page | 40 |
| Data Set Diagnostic Code | 0009 |
| File Name | Y:\Practice\Graded assignment\Regression\SAS graded\LOAN36.wpd |
| WPD Engine Version | 3 |
| Large Data Set Support | no |

| **Alphabetic List of Variables and Attributes** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Number** | **Variable** | **Type** | **Len** | **Pos** | **Format** | **Informat** |
| 11 | accept\_d | Num | 8 | 64 | DATE9. | DATE9. |
| 4 | funded\_amnt | Num | 8 | 24 |  |  |
| 5 | funded\_amnt\_inv | Num | 8 | 32 |  |  |
| 8 | grade | Char | 1 | 80 |  |  |
| 1 | id | Num | 8 | 0 |  |  |
| 7 | installment | Num | 8 | 48 |  |  |
| 6 | int\_rate | Num | 8 | 40 |  |  |
| 10 | is\_inc\_v | Num | 8 | 56 |  |  |
| 12 | issue\_d | Num | 8 | 72 | DATE9. | DATE9. |
| 3 | loan\_amnt | Num | 8 | 16 |  |  |
| 13 | loan\_status | Char | 18 | 83 |  |  |
| 2 | member\_id | Num | 8 | 8 |  |  |
| 9 | sub\_grade | Char | 2 | 81 |  |  |

/\*importing 60 months data sheet\*/

**PROC** **IMPORT** DATAFILE = "Z:\Assignments\Graded Assignment\Topic 6.3 - SAS\Loandetails.xlsx"

OUT = SAS.loan60

DBMS = xlsx

REPLACE;

sheet = "60 months";

getnames = yes;

**RUN**;

**data** sas.loan60;

set sas.loan60;

term = 60;

**run**;

/\*importing demo months data sheet\*/

**PROC** **IMPORT** DATAFILE = "Z:\Assignments\Graded Assignment\Topic 6.3 - SAS\Loandetails.xlsx"

OUT = SAS.loanDemo

DBMS = xlsx

REPLACE;

sheet = "demo";

guessingrows = 900;

getnames = yes;

**RUN**;

/\*merging the datafile\*/

**data** sas.master;

merge sas.loan36 sas.loan60;

**run**;

**proc** **contents** data = sas.master;

**run**;

|  |
| --- |
| The WPS System |

The CONTENTS Procedure

| Data Set Name | MASTER |
| --- | --- |
| Member Type | DATA |
| Engine | WPD |
| Created | 15OCT2017:11:12:09 |
| Last Modified | 15OCT2017:11:12:09 |
| Observations | 11825 |
| Variables | 14 |
| Indexes | 0 |
| Observation Length | 109 |
| Deleted Observations | 0 |
| Data Set Type |  |
| Label |  |
| Compressed | NO |
| Sorted | YES |
| Data Representation | Little endian, IEEE Windows |
| Encoding | wlatin1 Windows-1252 Western |

| **Engine/Host Dependent Information** | |
| --- | --- |
| Data Set Page Size | 4096 |
| Number of Data Set Pages | 321 |
| First Data Page | 1 |
| Max Obs Per Page | 37 |
| Obs In First Data Page | 37 |
| Data Set Diagnostic Code | 0009 |
| File Name | Y:\Practice\Graded assignment\Regression\SAS graded\MASTER.wpd |
| WPD Engine Version | 3 |
| Large Data Set Support | no |

| **Alphabetic List of Variables and Attributes** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Number** | **Variable** | **Type** | **Len** | **Pos** | **Format** | **Informat** |
| 11 | accept\_d | Num | 8 | 64 | DATE9. | DATE9. |
| 4 | funded\_amnt | Num | 8 | 24 |  |  |
| 5 | funded\_amnt\_inv | Num | 8 | 32 |  |  |
| 8 | grade | Char | 1 | 88 |  |  |
| 1 | id | Num | 8 | 0 |  |  |
| 7 | installment | Num | 8 | 48 |  |  |
| 6 | int\_rate | Num | 8 | 40 |  |  |
| 10 | is\_inc\_v | Num | 8 | 56 |  |  |
| 12 | issue\_d | Num | 8 | 72 | DATE9. | DATE9. |
| 3 | loan\_amnt | Num | 8 | 16 |  |  |
| 13 | loan\_status | Char | 18 | 91 |  |  |
| 2 | member\_id | Num | 8 | 8 |  |  |
| 9 | sub\_grade | Char | 2 | 89 |  |  |
| 14 | term | Num | 8 | 80 |  |  |

| **Sort Information** | |
| --- | --- |
| Sorted By | loan\_status |
| Validated | YES |

**proc** **means** mean n nmiss min max stddev data = sas.master;

**run**;

|  |
| --- |
| The WPS System |

The MEANS Procedure

| **Summary statistics** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Mean** | **N** | **N Miss** | **Minimum** | **Maximum** | **Std Dev** |
| id | 472311.09 | 11825 | 0 | 66943.00 | 564321.00 | 57410.10 |
| member\_id | 582251.37 | 11825 | 0 | 170750.00 | 726113.00 | 105584.58 |
| loan\_amnt | 10206.55 | 11825 | 0 | 1000.00 | 32875.00 | 6297.40 |
| funded\_amnt | 10000.94 | 11825 | 0 | 1000.00 | 32875.00 | 6088.68 |
| funded\_amnt\_inv | 9517.57 | 11825 | 0 | 219.3800000 | 28445.69 | 5762.57 |
| int\_rate | 0.1206301 | 11825 | 0 | 0.0579000 | 0.2164000 | 0.0290767 |
| installment | 321.3604643 | 11825 | 0 | 19.8700000 | 1043.89 | 202.5725829 |
| is\_inc\_v | 0.2668922 | 11825 | 0 | 0 | 1.0000000 | 0.4423543 |
| accept\_d | 19DEC2009 | 11825 | 0 | 04AUG2008 | 02JAN2013 | 05JUL1960 |
| issue\_d | 28DEC2009 | 11825 | 0 | 19AUG2008 | 11JAN2013 | 04JUL1960 |
| term | 38.5917970 | 11825 | 0 | 36.0000000 | 60.0000000 | 7.4491885 |

**proc** **sort** data = sas.master;

by loan\_status;

**proc** **freq** data = sas.master;

table loan\_status;

**run**;

|  |
| --- |
| The WPS System |

The FREQ Procedure

| **loan\_status** | **Frequency** | **Percent** | **Cumulative Frequency** | **Cumulative Percent** |
| --- | --- | --- | --- | --- |
| Charged Off | 1310 | 11.08 | 1310 | 11.08 |
| Current | 2004 | 16.95 | 3314 | 28.03 |
| Default | 6 | 0.05 | 3320 | 28.08 |
| Fully Paid | 8358 | 70.68 | 11678 | 98.76 |
| In Grace Period | 42 | 0.36 | 11720 | 99.11 |
| Late (16-30 days) | 10 | 0.08 | 11730 | 99.20 |
| Late (31-120 days) | 95 | 0.80 | 11825 | 100.00 |

/\* proc means statement for the variable "funded\_amnt"\*/

**data** sas.master1;

set sas.master;

**proc** **means** data = sas.master mean median;

var funded\_amnt;

**run**;

|  |
| --- |
| The WPS System |

The MEANS Procedure

| **Analysis Variable: funded\_amnt** | |
| --- | --- |
| **Mean** | **Median** |
| 10000.94 | 9000.00 |

/\* froc frequency for loan\_status and terms \*/

**proc** **freq** data = sas.master1;

table loan\_status\*term/norow nocol;

**run**;

|  |
| --- |
| The WPS System |

The FREQ Procedure

| **Table of loan\_status by term** | | | |
| --- | --- | --- | --- |
| **loan\_status** | **term** | | **Total** |
| **Frequency Percent** | **36** | **60** |
| **Charged Off** | 1137 9.62 | 173 1.46 | 1310 11.08 |
| **Current** | 1256 10.62 | 748 6.33 | 2004 16.95 |
| **Default** | 6 0.05 | 0 0.00 | 6 0.05 |
| **Fully Paid** | 8049 68.07 | 309 2.61 | 8358 70.68 |
| **In Grace Period** | 24 0.20 | 18 0.15 | 42 0.36 |
| **Late (16-30 days)** | 9 0.08 | 1 0.01 | 10 0.08 |
| **Late (31-120 days)** | 67 0.57 | 28 0.24 | 95 0.80 |
| **Total** | **10548 89.20** | **1277 10.80** | **11825 100.00** |

/\*most commonly cited reason for taking a loan,

first sort data by id in both the master1 and demo sheet and then merge it\*/

**proc** **sort** data = sas.master1;

by id;

**run**;

**proc** **sort** data = sas.loandemo;

by id;

**run**;

**data** sas.master\_merge;

merge sas.master1 sas.loandemo;

by id;

**proc** **print**;

**run**;

**proc** **means** noprint sum data = sas.master\_merge;

output out = sas.master\_merge1;

var funded\_amnt loan\_amnt;

**proc** **print**;

**run**;

**data** sas.master\_merge2;

set sas.master\_merge;

purpose\_ratio = *round*((funded\_amnt/loan\_amnt),0.01);

**run**;

|  |
| --- |
| The WPS System |

The CONTENTS Procedure

| Data Set Name | MASTER\_MERGE2 |
| --- | --- |
| Member Type | DATA |
| Engine | WPD |
| Created | 15OCT2017:12:35:10 |
| Last Modified | 15OCT2017:12:35:10 |
| Observations | 13102 |
| Variables | 24 |
| Indexes | 0 |
| Observation Length | 4335 |
| Deleted Observations | 0 |
| Data Set Type |  |
| Label |  |
| Compressed | NO |
| Sorted | NO |
| Data Representation | Little endian, IEEE Windows |
| Encoding | wlatin1 Windows-1252 Western |

| **Engine/Host Dependent Information** | |
| --- | --- |
| Data Set Page Size | 28672 |
| Number of Data Set Pages | 2185 |
| First Data Page | 1 |
| Max Obs Per Page | 6 |
| Obs In First Data Page | 6 |
| Data Set Diagnostic Code | 0009 |
| File Name | Y:\Practice\Graded assignment\Regression\SAS graded\MASTER\_MERGE2.wpd |
| WPD Engine Version | 3 |
| Large Data Set Support | no |

| **Alphabetic List of Variables and Attributes** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Number** | **Variable** | **Type** | **Len** | **Pos** | **Format** | **Informat** |
| 11 | accept\_d | Num | 8 | 64 | DATE9. | DATE9. |
| 22 | addr\_city | Char | 25 | 4308 |  |  |
| 23 | addr\_state | Char | 2 | 4333 |  |  |
| 18 | annual\_inc | Num | 8 | 88 |  |  |
| 19 | desc | Char | 3989 | 220 |  |  |
| 16 | emp\_length | Char | 9 | 203 |  |  |
| 15 | emp\_name | Char | 78 | 125 |  |  |
| 4 | funded\_amnt | Num | 8 | 24 |  |  |
| 5 | funded\_amnt\_inv | Num | 8 | 32 |  |  |
| 8 | grade | Char | 1 | 104 |  |  |
| 17 | home\_ownership | Char | 8 | 212 |  |  |
| 1 | id | Num | 8 | 0 |  |  |
| 7 | installment | Num | 8 | 48 |  |  |
| 6 | int\_rate | Num | 8 | 40 |  |  |
| 10 | is\_inc\_v | Num | 8 | 56 |  |  |
| 12 | issue\_d | Num | 8 | 72 | DATE9. | DATE9. |
| 3 | loan\_amnt | Num | 8 | 16 |  |  |
| 13 | loan\_status | Char | 18 | 107 |  |  |
| 2 | member\_id | Num | 8 | 8 |  |  |
| 20 | purpose | Char | 18 | 4209 |  |  |
| 24 | purpose\_ratio | Num | 8 | 96 |  |  |
| 9 | sub\_grade | Char | 2 | 105 |  |  |
| 14 | term | Num | 8 | 80 |  |  |
| 21 | title | Char | 81 | 4227 |  |  |

**proc** **means** mean n nmiss min max stddev data = sas.master\_merge2;

**run**;

|  |
| --- |
| The WPS System |

The MEANS Procedure

| **Summary statistics** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Mean** | **N** | **N Miss** | **Minimum** | **Maximum** | **Std Dev** |
| id | 451217.20 | 13102 | 0 | 54734.00 | 564321.00 | 87777.85 |
| member\_id | 582251.37 | 11825 | 1277 | 170750.00 | 726113.00 | 105584.58 |
| loan\_amnt | 10206.55 | 11825 | 1277 | 1000.00 | 32875.00 | 6297.40 |
| funded\_amnt | 10000.94 | 11825 | 1277 | 1000.00 | 32875.00 | 6088.68 |
| funded\_amnt\_inv | 9517.57 | 11825 | 1277 | 219.3800000 | 28445.69 | 5762.57 |
| int\_rate | 0.1206301 | 11825 | 1277 | 0.0579000 | 0.2164000 | 0.0290767 |
| installment | 321.3604643 | 11825 | 1277 | 19.8700000 | 1043.89 | 202.5725829 |
| is\_inc\_v | 0.2668922 | 11825 | 1277 | 0 | 1.0000000 | 0.4423543 |
| accept\_d | 19DEC2009 | 11825 | 1277 | 04AUG2008 | 02JAN2013 | 05JUL1960 |
| issue\_d | 28DEC2009 | 11825 | 1277 | 19AUG2008 | 11JAN2013 | 04JUL1960 |
| term | 38.5917970 | 11825 | 1277 | 36.0000000 | 60.0000000 | 7.4491885 |
| annual\_inc | 68391.51 | 13102 | 0 | 4000.00 | 6000000.00 | 91640.65 |
| purpose\_ratio | 0.9883340 | 11825 | 1277 | 0.1600000 | 1.0000000 | 0.0631197 |

**data** sas.master\_merge3;

set sas.master\_merge2;

if member\_id = . then delete;

**proc** **freq** data = sas.master\_merge3;

table purpose\_ratio\*purpose/norow nocol;

**run**;

|  |
| --- |
| The WPS System |

The FREQ Procedure

| **Table of purpose\_ratio by purpose** | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **purpose\_ratio** | **purpose** | | | | | | | | | | | | | | **Total** |
| **Frequency Percent** | **car** | **credit\_card** | **debt\_consolidation** | **educational** | **home\_improvement** | **house** | **major\_purchase** | **medical** | **moving** | **other** | **renewable\_energy** | **small\_business** | **vacation** | **wedding** |
| **0.16** | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.17** | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.23** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.27** | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.3** | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.31** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.34** | 0 0.00 | 1 0.01 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.38** | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.41** | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.43** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.45** | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.46** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.47** | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.5** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.51** | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.52** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.53** | 0 0.00 | 2 0.02 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 4 0.03 |
| **0.55** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.56** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.57** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.58** | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.59** | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.6** | 0 0.00 | 2 0.02 | 1 0.01 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 7 0.06 |
| **0.61** | 0 0.00 | 2 0.02 | 12 0.10 | 0 0.00 | 4 0.03 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 21 0.18 |
| **0.62** | 0 0.00 | 5 0.04 | 13 0.11 | 0 0.00 | 6 0.05 | 2 0.02 | 2 0.02 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 30 0.25 |
| **0.63** | 0 0.00 | 3 0.03 | 17 0.14 | 0 0.00 | 2 0.02 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 4 0.03 | 1 0.01 | 6 0.05 | 0 0.00 | 1 0.01 | 36 0.30 |
| **0.64** | 0 0.00 | 3 0.03 | 19 0.16 | 0 0.00 | 3 0.03 | 1 0.01 | 1 0.01 | 1 0.01 | 0 0.00 | 4 0.03 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 32 0.27 |
| **0.65** | 1 0.01 | 2 0.02 | 19 0.16 | 0 0.00 | 3 0.03 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 | 28 0.24 |
| **0.66** | 1 0.01 | 1 0.01 | 13 0.11 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 18 0.15 |
| **0.67** | 1 0.01 | 3 0.03 | 9 0.08 | 1 0.01 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 2 0.02 | 0 0.00 | 1 0.01 | 20 0.17 |
| **0.68** | 0 0.00 | 3 0.03 | 10 0.08 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 3 0.03 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 17 0.14 |
| **0.69** | 0 0.00 | 2 0.02 | 7 0.06 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 11 0.09 |
| **0.7** | 1 0.01 | 3 0.03 | 7 0.06 | 1 0.01 | 2 0.02 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 2 0.02 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 20 0.17 |
| **0.71** | 0 0.00 | 3 0.03 | 6 0.05 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 4 0.03 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 18 0.15 |
| **0.72** | 0 0.00 | 3 0.03 | 7 0.06 | 0 0.00 | 1 0.01 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 16 0.14 |
| **0.73** | 0 0.00 | 2 0.02 | 6 0.05 | 1 0.01 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 10 0.08 |
| **0.74** | 0 0.00 | 0 0.00 | 8 0.07 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 2 0.02 | 0 0.00 | 1 0.01 | 14 0.12 |
| **0.75** | 0 0.00 | 1 0.01 | 6 0.05 | 1 0.01 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 9 0.08 |
| **0.76** | 0 0.00 | 3 0.03 | 9 0.08 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 16 0.14 |
| **0.77** | 0 0.00 | 3 0.03 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 5 0.04 |
| **0.78** | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 6 0.05 |
| **0.79** | 0 0.00 | 4 0.03 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 6 0.05 |
| **0.8** | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.81** | 0 0.00 | 2 0.02 | 5 0.04 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 8 0.07 |
| **0.82** | 0 0.00 | 0 0.00 | 4 0.03 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 4 0.03 |
| **0.83** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 3 0.03 |
| **0.84** | 0 0.00 | 1 0.01 | 2 0.02 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 7 0.06 |
| **0.85** | 0 0.00 | 0 0.00 | 4 0.03 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 5 0.04 |
| **0.86** | 0 0.00 | 1 0.01 | 3 0.03 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 4 0.03 |
| **0.87** | 0 0.00 | 1 0.01 | 2 0.02 | 1 0.01 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 5 0.04 |
| **0.88** | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 5 0.04 |
| **0.89** | 1 0.01 | 2 0.02 | 4 0.03 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 7 0.06 |
| **0.9** | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.91** | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 |
| **0.92** | 0 0.00 | 1 0.01 | 3 0.03 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 5 0.04 |
| **0.93** | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 4 0.03 |
| **0.94** | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.95** | 0 0.00 | 1 0.01 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 3 0.03 |
| **0.96** | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.02 |
| **0.97** | 0 0.00 | 1 0.01 | 1 0.01 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 4 0.03 |
| **0.98** | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 3 0.03 |
| **0.99** | 0 0.00 | 0 0.00 | 2 0.02 | 0 0.00 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 1 0.01 | 0 0.00 | 1 0.01 | 0 0.00 | 0 0.00 | 5 0.04 |
| **1** | 359 3.04 | 1420 12.01 | 4895 41.40 | 270 2.28 | 772 6.53 | 118 1.00 | 733 6.20 | 184 1.56 | 167 1.41 | 1493 12.63 | 23 0.19 | 573 4.85 | 83 0.70 | 281 2.38 | 11371 96.16 |
| **Total** | **365 3.09** | **1488 12.58** | **5119 43.29** | **276 2.33** | **812 6.87** | **122 1.03** | **750 6.34** | **187 1.58** | **170 1.44** | **1536 12.99** | **24 0.20** | **602 5.09** | **84 0.71** | **290 2.45** | **11825 100.00** |

\*-------------------\*imorting population file and merging with the master sheet--------------------------\*/

**PROC** **IMPORT** DATAFILE = "Z:\Assignments\Graded Assignment\Topic 6.3 - SAS\US Population by State.csv"

OUT = SAS.pop

DBMS = csv

REPLACE;

**RUN**;

**data** sas.pop1;

set sas.pop;

rename \_2013 = pop2013;

**run**;

**proc** **means** sum data = sas.pop1;

output out = sas.pop2;

var pop2013;

**proc** **print**;

**run**;

|  |
| --- |
| The WPS System |

The MEANS Procedure

| **Analysis Variable: pop2013 2013** |
| --- |
| **Sum** |
| 316,128,839 |

|  |
| --- |
| The WPS System |

| **Obs** | **\_TYPE\_** | **\_FREQ\_** | **\_STAT\_** | **pop2013** |
| --- | --- | --- | --- | --- |
| 1 | 0 | 51 | SUM | 316,128,839 |

**proc** **means** n data = sas.master\_merge3;

class addr\_state;

var id;

output out = sas.shareloan (drop = \_type\_ \_freq\_ \_stat\_);

**run**;

**data** sas.shareloan;

set sas.shareloan;

rename addr\_state = States;

**run**;

**proc** **means** n nmiss data = sas.shareloan;

**run**;

|  |
| --- |
| The WPS System |

The MEANS Procedure

| **Summary statistics** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Mean** | **N** | **N Miss** | **Minimum** | **Maximum** | **Std Dev** |
| id | 451217.20 | 13102 | 0 | 54734.00 | 564321.00 | 87777.85 |
| member\_id | 582251.37 | 11825 | 1277 | 170750.00 | 726113.00 | 105584.58 |
| loan\_amnt | 10206.55 | 11825 | 1277 | 1000.00 | 32875.00 | 6297.40 |
| funded\_amnt | 10000.94 | 11825 | 1277 | 1000.00 | 32875.00 | 6088.68 |
| funded\_amnt\_inv | 9517.57 | 11825 | 1277 | 219.3800000 | 28445.69 | 5762.57 |
| int\_rate | 0.1206301 | 11825 | 1277 | 0.0579000 | 0.2164000 | 0.0290767 |
| installment | 321.3604643 | 11825 | 1277 | 19.8700000 | 1043.89 | 202.5725829 |
| is\_inc\_v | 0.2668922 | 11825 | 1277 | 0 | 1.0000000 | 0.4423543 |
| accept\_d | 19DEC2009 | 11825 | 1277 | 04AUG2008 | 02JAN2013 | 05JUL1960 |
| issue\_d | 28DEC2009 | 11825 | 1277 | 19AUG2008 | 11JAN2013 | 04JUL1960 |
| term | 38.5917970 | 11825 | 1277 | 36.0000000 | 60.0000000 | 7.4491885 |
| annual\_inc | 68391.51 | 13102 | 0 | 4000.00 | 6000000.00 | 91640.65 |
| purpose\_ratio | 0.9883340 | 11825 | 1277 | 0.1600000 | 1.0000000 | 0.0631197 |

**proc** **sort** data = sas.shareloan;

by states;

**proc** **sort** data = sas.pop1;

by states;

**run**;

**data** sas.share;

merge sas.shareloan sas.pop1;

by states;

**run**;

**data** sas.popshare;

set sas.share;

popshare = pop2013/316128839;

**proc** **print**;

**run**;

|  |
| --- |
| The WPS System |

| **Obs** | **States** | **id** | **pop2013** | **popshare** |
| --- | --- | --- | --- | --- |
| 1 |  | 11825 | . | . |
| 2 | AK | 20 | 735,132 | 0.002325419 |
| 3 | AL | 135 | 4,833,722 | 0.0152903544 |
| 4 | AR | 58 | 2,959,373 | 0.0093612877 |
| 5 | AZ | 248 | 6,626,624 | 0.0209617826 |
| 6 | CA | 2175 | 38,332,521 | 0.1212560079 |
| 7 | CO | 263 | 5,268,367 | 0.0166652527 |
| 8 | CT | 225 | 3,596,080 | 0.0113753621 |
| 9 | DC | 70 | 646,449 | 0.0020448909 |
| 10 | DE | 36 | 925,749 | 0.0029283915 |
| 11 | FL | 855 | 19,552,860 | 0.0618509215 |
| 12 | GA | 457 | 9,992,167 | 0.0316078945 |
| 13 | HI | 41 | 1,404,054 | 0.004441398 |
| 14 | IA | 1 | 3,090,416 | 0.0097758117 |
| 15 | ID | . | 1,612,136 | 0.005099617 |
| 16 | IL | 452 | 12,882,135 | 0.0407496356 |
| 17 | IN | . | 6,570,902 | 0.020785519 |
| 18 | KS | 43 | 2,893,957 | 0.0091543594 |
| 19 | KY | 83 | 4,395,295 | 0.0139034927 |
| 20 | LA | 110 | 4,625,470 | 0.0146315977 |
| 21 | MA | 467 | 6,692,824 | 0.0211711909 |
| 22 | MD | 323 | 5,928,814 | 0.0187544231 |
| 23 | ME | . | 1,328,302 | 0.0042017742 |
| 24 | MI | 241 | 9,895,622 | 0.0313024969 |
| 25 | MN | 188 | 5,420,380 | 0.0171461105 |
| 26 | MO | 181 | 6,044,171 | 0.0191193281 |
| 27 | MS | 13 | 2,991,207 | 0.0094619871 |
| 28 | MT | 23 | 1,015,165 | 0.0032112382 |
| 29 | NC | . | 9,848,060 | 0.0311520456 |
| 30 | ND | . | 723,393 | 0.0022882854 |
| 31 | NE | . | 1,868,516 | 0.0059106155 |
| 32 | NH | 52 | 1,323,459 | 0.0041864545 |
| 33 | NJ | 565 | 8,899,339 | 0.0281509875 |
| 34 | NM | 66 | 2,085,287 | 0.0065963201 |
| 35 | NV | 120 | 2,790,136 | 0.0088259458 |
| 36 | NY | 1125 | 19,651,127 | 0.0621617663 |
| 37 | OH | 362 | 11,570,808 | 0.0366015579 |
| 38 | OK | 88 | 3,850,568 | 0.0121803756 |
| 39 | OR | 137 | 3,930,065 | 0.0124318459 |
| 40 | PA | 515 | 12,773,801 | 0.0404069462 |
| 41 | RI | 64 | 1,051,511 | 0.0033262103 |
| 42 | SC | 143 | 4,774,839 | 0.0151040918 |
| 43 | SD | 14 | 844,877 | 0.0026725717 |
| 44 | TN | 2 | 6,495,978 | 0.0205485144 |
| 45 | TX | 841 | 26,448,193 | 0.0836627025 |
| 46 | UT | 74 | 2,900,872 | 0.0091762334 |
| 47 | VA | 470 | 8,260,405 | 0.0261298685 |
| 48 | VT | 12 | 626,630 | 0.0019821982 |
| 49 | WA | 241 | 6,971,406 | 0.0220524202 |
| 50 | WI | 138 | 5,742,713 | 0.0181657359 |
| 51 | WV | 53 | 1,854,304 | 0.0058656591 |
| 52 | WY | 34 | 582,658 | 0.001843103 |
| 53 | XX | 1 | . | . |

/\*-------------------\*calculating total funded by state--------------------------\*/

**proc** **means** sum data = sas.master\_merge3;

var funded\_amnt;

output out = sas.loanshare;

**proc** **print**;

|  |
| --- |
| The WPS System |

The MEANS Procedure

| **Analysis Variable: funded\_amnt** |
| --- |
| **Sum** |
| 118261150 |

**proc** **means** sum data = sas.master\_merge3;

class addr\_state;

var funded\_amnt;

output out = sas.loanshare1 (drop = \_type\_ \_freq\_ \_stat\_);

**proc** **print**;

**run**;

|  |
| --- |
| The WPS System |

The MEANS Procedure

| **Analysis Variable: funded\_amnt** | | |
| --- | --- | --- |
| **addr\_state** | **N Obs** | **Sum** |
| AK | 20 | 228375.00 |
| AL | 135 | 1224400.00 |
| AR | 58 | 558025.00 |
| AZ | 248 | 2431325.00 |
| CA | 2175 | 22324975.00 |
| CO | 263 | 2767650.00 |
| CT | 225 | 2219375.00 |
| DC | 70 | 831925.00 |
| DE | 36 | 367725.00 |
| FL | 855 | 8179825.00 |
| GA | 457 | 4428550.00 |
| HI | 41 | 346125.00 |
| IA | 1 | 9600.00 |
| IL | 452 | 4841175.00 |
| KS | 43 | 395350.00 |
| KY | 83 | 742625.00 |
| LA | 110 | 1048825.00 |
| MA | 467 | 4872875.00 |
| MD | 323 | 3392150.00 |
| MI | 241 | 2428050.00 |
| MN | 188 | 1853825.00 |
| MO | 181 | 1712375.00 |
| MS | 13 | 88500.00 |
| MT | 23 | 166850.00 |
| NH | 52 | 492625.00 |
| NJ | 565 | 5893200.00 |
| NM | 66 | 681500.00 |
| NV | 120 | 1233175.00 |
| NY | 1125 | 11624600.00 |
| OH | 362 | 3380825.00 |
| OK | 88 | 843125.00 |
| OR | 137 | 1305725.00 |
| PA | 515 | 4863500.00 |
| RI | 64 | 580125.00 |
| SC | 143 | 1418900.00 |
| SD | 14 | 127350.00 |
| TN | 2 | 11275.00 |
| TX | 841 | 8318075.00 |
| UT | 74 | 726150.00 |
| VA | 470 | 4751050.00 |
| VT | 12 | 109250.00 |
| WA | 241 | 2364875.00 |
| WI | 138 | 1295875.00 |
| WV | 53 | 416050.00 |
| WY | 34 | 339175.00 |
| XX | 1 | 24250.00 |

|  |
| --- |
| The WPS System |

| **Obs** | **addr\_state** | **funded\_amnt** |
| --- | --- | --- |
| 1 |  | 118261150 |
| 2 | AK | 228375 |
| 3 | AL | 1224400 |
| 4 | AR | 558025 |
| 5 | AZ | 2431325 |
| 6 | CA | 22324975 |
| 7 | CO | 2767650 |
| 8 | CT | 2219375 |
| 9 | DC | 831925 |
| 10 | DE | 367725 |
| 11 | FL | 8179825 |
| 12 | GA | 4428550 |
| 13 | HI | 346125 |
| 14 | IA | 9600 |
| 15 | IL | 4841175 |
| 16 | KS | 395350 |
| 17 | KY | 742625 |
| 18 | LA | 1048825 |
| 19 | MA | 4872875 |
| 20 | MD | 3392150 |
| 21 | MI | 2428050 |
| 22 | MN | 1853825 |
| 23 | MO | 1712375 |
| 24 | MS | 88500 |
| 25 | MT | 166850 |
| 26 | NH | 492625 |
| 27 | NJ | 5893200 |
| 28 | NM | 681500 |
| 29 | NV | 1233175 |
| 30 | NY | 11624600 |
| 31 | OH | 3380825 |
| 32 | OK | 843125 |
| 33 | OR | 1305725 |
| 34 | PA | 4863500 |
| 35 | RI | 580125 |
| 36 | SC | 1418900 |
| 37 | SD | 127350 |
| 38 | TN | 11275 |
| 39 | TX | 8318075 |
| 40 | UT | 726150 |
| 41 | VA | 4751050 |
| 42 | VT | 109250 |
| 43 | WA | 2364875 |
| 44 | WI | 1295875 |
| 45 | WV | 416050 |
| 46 | WY | 339175 |
| 47 | XX | 24250 |

**data** sas.loanshare\_f;

set sas.loanshare1;

loanshare = funded\_amnt/118261150;

**run**;

**data** sas.loanshare\_f;

set sas.loanshare\_f;

rename addr\_state=states;

**run**;

**data** sas.poploan;

merge sas.loanshare\_f sas.popshare;

by states;

**run**;

**data** sas.index;

set sas.poploan;

index = loanshare/popshare;

if index >1 then ratio = 1;

else ratio = 0;

**proc** **print**;

**run**;

|  |
| --- |
| The WPS System |

| **Obs** | **states** | **funded\_amnt** | **loanshare** | **id** | **pop2013** | **popshare** | **index** | **ratio** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 |  | 118261150 | 1 | 11825 | . | . | . | 0 |
| 2 | AK | 228375 | 0.0019311076 | 20 | 735,132 | 0.002325419 | 0.8304342468 | 0 |
| 3 | AL | 1224400 | 0.0103533578 | 135 | 4,833,722 | 0.0152903544 | 0.677116926 | 0 |
| 4 | AR | 558025 | 0.0047185826 | 58 | 2,959,373 | 0.0093612877 | 0.5040527256 | 0 |
| 5 | AZ | 2431325 | 0.0205589494 | 248 | 6,626,624 | 0.0209617826 | 0.9807824932 | 0 |
| 6 | CA | 22324975 | 0.1887769145 | 2175 | 38,332,521 | 0.1212560079 | 1.5568458648 | 1 |
| 7 | CO | 2767650 | 0.0234028673 | 263 | 5,268,367 | 0.0166652527 | 1.4042911719 | 1 |
| 8 | CT | 2219375 | 0.0187667294 | 225 | 3,596,080 | 0.0113753621 | 1.6497698537 | 1 |
| 9 | DC | 831925 | 0.0070346432 | 70 | 646,449 | 0.0020448909 | 3.4401068017 | 1 |
| 10 | DE | 367725 | 0.003109432 | 36 | 925,749 | 0.0029283915 | 1.0618224994 | 1 |
| 11 | FL | 8179825 | 0.0691674738 | 855 | 19,552,860 | 0.0618509215 | 1.1182933445 | 1 |
| 12 | GA | 4428550 | 0.037447209 | 457 | 9,992,167 | 0.0316078945 | 1.184742279 | 1 |
| 13 | HI | 346125 | 0.0029267853 | 41 | 1,404,054 | 0.004441398 | 0.6589783949 | 0 |
| 14 | IA | 9600 | 0.0000811763 | 1 | 3,090,416 | 0.0097758117 | 0.0083037891 | 0 |
| 15 | ID | . | . | . | 1,612,136 | 0.005099617 | . | 0 |
| 16 | IL | 4841175 | 0.0409363092 | 452 | 12,882,135 | 0.0407496356 | 1.004580987 | 1 |
| 17 | IN | . | . | . | 6,570,902 | 0.020785519 | . | 0 |
| 18 | KS | 395350 | 0.0033430252 | 43 | 2,893,957 | 0.0091543594 | 0.365183955 | 0 |
| 19 | KY | 742625 | 0.0062795347 | 83 | 4,395,295 | 0.0139034927 | 0.4516516018 | 0 |
| 20 | LA | 1048825 | 0.0088687198 | 110 | 4,625,470 | 0.0146315977 | 0.6061347467 | 0 |
| 21 | MA | 4872875 | 0.04120436 | 467 | 6,692,824 | 0.0211711909 | 1.9462466804 | 1 |
| 22 | MD | 3392150 | 0.0286835533 | 323 | 5,928,814 | 0.0187544231 | 1.5294287196 | 1 |
| 23 | ME | . | . | . | 1,328,302 | 0.0042017742 | . | 0 |
| 24 | MI | 2428050 | 0.0205312565 | 241 | 9,895,622 | 0.0313024969 | 0.6558983627 | 0 |
| 25 | MN | 1853825 | 0.0156756889 | 188 | 5,420,380 | 0.0171461105 | 0.9142416846 | 0 |
| 26 | MO | 1712375 | 0.0144796072 | 181 | 6,044,171 | 0.0191193281 | 0.757328245 | 0 |
| 27 | MS | 88500 | 0.0007483438 | 13 | 2,991,207 | 0.0094619871 | 0.0790894983 | 0 |
| 28 | MT | 166850 | 0.0014108606 | 23 | 1,015,165 | 0.0032112382 | 0.4393509738 | 0 |
| 29 | NC | . | . | . | 9,848,060 | 0.0311520456 | . | 0 |
| 30 | ND | . | . | . | 723,393 | 0.0022882854 | . | 0 |
| 31 | NE | . | . | . | 1,868,516 | 0.0059106155 | . | 0 |
| 32 | NH | 492625 | 0.0041655692 | 52 | 1,323,459 | 0.0041864545 | 0.9950112125 | 0 |
| 33 | NJ | 5893200 | 0.0498320877 | 565 | 8,899,339 | 0.0281509875 | 1.7701719233 | 1 |
| 34 | NM | 681500 | 0.0057626702 | 66 | 2,085,287 | 0.0065963201 | 0.8736189439 | 0 |
| 35 | NV | 1233175 | 0.010427558 | 120 | 2,790,136 | 0.0088259458 | 1.1814663522 | 1 |
| 36 | NY | 11624600 | 0.0982960169 | 1125 | 19,651,127 | 0.0621617663 | 1.5812938211 | 1 |
| 37 | OH | 3380825 | 0.0285877907 | 362 | 11,570,808 | 0.0366015579 | 0.7810539309 | 0 |
| 38 | OK | 843125 | 0.0071293489 | 88 | 3,850,568 | 0.0121803756 | 0.5853143722 | 0 |
| 39 | OR | 1305725 | 0.0110410308 | 137 | 3,930,065 | 0.0124318459 | 0.8881248145 | 0 |
| 40 | PA | 4863500 | 0.0411250863 | 515 | 12,773,801 | 0.0404069462 | 1.0177726885 | 1 |
| 41 | RI | 580125 | 0.0049054571 | 64 | 1,051,511 | 0.0033262103 | 1.4747886264 | 1 |
| 42 | SC | 1418900 | 0.011998023 | 143 | 4,774,839 | 0.0151040918 | 0.7943558071 | 0 |
| 43 | SD | 127350 | 0.0010768541 | 14 | 844,877 | 0.0026725717 | 0.4029280298 | 0 |
| 44 | TN | 11275 | 0.0000953398 | 2 | 6,495,978 | 0.0205485144 | 0.0046397441 | 0 |
| 45 | TX | 8318075 | 0.0703364968 | 841 | 26,448,193 | 0.0836627025 | 0.8407150945 | 0 |
| 46 | UT | 726150 | 0.0061402244 | 74 | 2,900,872 | 0.0091762334 | 0.6691443173 | 0 |
| 47 | VA | 4751050 | 0.0401742246 | 470 | 8,260,405 | 0.0261298685 | 1.5374828445 | 1 |
| 48 | VT | 109250 | 0.000923803 | 12 | 626,630 | 0.0019821982 | 0.466049752 | 0 |
| 49 | WA | 2364875 | 0.0199970574 | 241 | 6,971,406 | 0.0220524202 | 0.9067964951 | 0 |
| 50 | WI | 1295875 | 0.0109577406 | 138 | 5,742,713 | 0.0181657359 | 0.6032092847 | 0 |
| 51 | WV | 416050 | 0.0035180615 | 53 | 1,854,304 | 0.0058656591 | 0.5997725836 | 0 |
| 52 | WY | 339175 | 0.0028680171 | 34 | 582,658 | 0.001843103 | 1.5560807795 | 1 |
| 53 | XX | 24250 | 0.0002050547 | 1 | . | . | . | 0 |

**proc** **means** max data = sas.index;

var index;

**run**;

|  |
| --- |
| The WPS System |

The MEANS Procedure

| **Analysis Variable: index** |
| --- |
| **Maximum** |
| 3.4401068 |