**Correlations**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 22-MAR-2022 22:46:11 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics for each pair of variables are based on all the cases with valid data for that pair. |
| Syntax | | CORRELATIONS /VARIABLES=MORTALITYRATE LITERACYRATE PERCAPITAGCP /PRINT=TWOTAIL NOSIG FULL /MISSING=PAIRWISE. |
| Resources | Processor Time | 00:00:00.00 |
| Elapsed Time | 00:00:00.01 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Correlations** | | | | |
|  | | MORTALITYRATE | LITERACYRATE | PERCAPITAGCP |
| MORTALITYRATE | Pearson Correlation | 1 | -.705\*\* | -.525\*\* |
| Sig. (2-tailed) |  | <.001 | .002 |
| N | 34 | 34 | 33 |
| LITERACYRATE | Pearson Correlation | -.705\*\* | 1 | .579\*\* |
| Sig. (2-tailed) | <.001 |  | <.001 |
| N | 34 | 34 | 33 |
| PERCAPITAGCP | Pearson Correlation | -.525\*\* | .579\*\* | 1 |
| Sig. (2-tailed) | .002 | <.001 |  |
| N | 33 | 33 | 33 |
| \*\*. Correlation is significant at the 0.01 level (2-tailed). | | | | |

**GGraph**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 22-MAR-2022 22:48:59 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=MORTALITYRATE MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: MORTALITYRATE=col(source(s), name("MORTALITYRATE")) DATA: id=col(source(s), name("$CASENUM"), unit.category()) GUIDE: axis(dim(2), label("MORTALITYRATE")) GUIDE: text.title(label("Simple Boxplot of MORTALITYRATE")) ELEMENT: schema(position(bin.quantile.letter(1\*MORTALITYRATE)), label(id)) END GPL. |
| Resources | Processor Time | 00:00:02.37 |
| Elapsed Time | 00:00:00.80 |

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**GGraph**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 22-MAR-2022 23:16:11 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=LITERACYRATE MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: LITERACYRATE=col(source(s), name("LITERACYRATE")) DATA: id=col(source(s), name("$CASENUM"), unit.category()) GUIDE: axis(dim(2), label("LITERACYRATE")) GUIDE: text.title(label("Simple Boxplot of LITERACYRATE")) ELEMENT: schema(position(bin.quantile.letter(1\*LITERACYRATE)), label(id)) END GPL. |
| Resources | Processor Time | 00:00:00.25 |
| Elapsed Time | 00:00:00.08 |

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**GGraph**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 22-MAR-2022 23:17:27 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=PERCAPITAGCP MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE /COLORCYCLE COLOR1(204,127,228), COLOR2(0,93,93), COLOR3(159,24,83), COLOR4(250,77,86), COLOR5(87,4,8), COLOR6(25,128,56), COLOR7(0,45,156), COLOR8(238,83,139), COLOR9(178,134,0), COLOR10(0,157,154), COLOR11(1,39,73), COLOR12(138,56,0), COLOR13(165,110,255), COLOR14(236,230,208), COLOR15(69,70,71), COLOR16(92,202,136), COLOR17(208,83,52), COLOR18(204,127,228), COLOR19(225,188,29), COLOR20(237,75,75), COLOR21(28,205,205), COLOR22(92,113,72), COLOR23(225,139,14), COLOR24(9,38,114), COLOR25(90,100,94), COLOR26(155,0,0), COLOR27(207,172,227), COLOR28(150,145,145), COLOR29(63,235,124), COLOR30(105,41,196) /FRAME OUTER=NO INNER=NO /GRIDLINES XAXIS=NO YAXIS=YES /STYLE GRADIENT=NO. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: PERCAPITAGCP=col(source(s), name("PERCAPITAGCP")) DATA: id=col(source(s), name("$CASENUM"), unit.category()) GUIDE: axis(dim(2), label("PERCAPITAGCP")) GUIDE: text.title(label("Simple Boxplot of PERCAPITAGCP")) ELEMENT: schema(position(bin.quantile.letter(1\*PERCAPITAGCP)), label(id)) END GPL. |
| Resources | Processor Time | 00:00:00.19 |
| Elapsed Time | 00:00:00.13 |

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**Graph**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 22-MAR-2022 23:19:28 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GRAPH /SCATTERPLOT(MATRIX)=MORTALITYRATE LITERACYRATE PERCAPITAGCP BY STATE /MISSING=LISTWISE. |
| Resources | Processor Time | 00:00:00.23 |
| Elapsed Time | 00:00:00.13 |

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**Frequencies**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 22-MAR-2022 23:59:12 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics are based on all cases with valid data. |
| Syntax | | FREQUENCIES VARIABLES=MORTALITYRATE /BARCHART FREQ /ORDER=ANALYSIS. |
| Resources | Processor Time | 00:00:00.13 |
| Elapsed Time | 00:00:00.09 |

|  |  |  |
| --- | --- | --- |
| **Statistics** | | |
| MORTALITYRATE | | |
| N | Valid | 34 |
| Missing | 0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MORTALITYRATE** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 31 | 1 | 2.9 | 2.9 | 2.9 |
| 40 | 1 | 2.9 | 2.9 | 5.9 |
| 41 | 1 | 2.9 | 2.9 | 8.8 |
| 66 | 1 | 2.9 | 2.9 | 11.8 |
| 67 | 1 | 2.9 | 2.9 | 14.7 |
| 68 | 1 | 2.9 | 2.9 | 17.6 |
| 70 | 1 | 2.9 | 2.9 | 20.6 |
| 71 | 1 | 2.9 | 2.9 | 23.5 |
| 75 | 1 | 2.9 | 2.9 | 26.5 |
| 76 | 1 | 2.9 | 2.9 | 29.4 |
| 81 | 1 | 2.9 | 2.9 | 32.4 |
| 84 | 1 | 2.9 | 2.9 | 35.3 |
| 90 | 2 | 5.9 | 5.9 | 41.2 |
| 92 | 1 | 2.9 | 2.9 | 44.1 |
| 94 | 1 | 2.9 | 2.9 | 47.1 |
| 102 | 1 | 2.9 | 2.9 | 50.0 |
| 112 | 1 | 2.9 | 2.9 | 52.9 |
| 114 | 2 | 5.9 | 5.9 | 58.8 |
| 122 | 1 | 2.9 | 2.9 | 61.8 |
| 127 | 1 | 2.9 | 2.9 | 64.7 |
| 129 | 1 | 2.9 | 2.9 | 67.6 |
| 132 | 1 | 2.9 | 2.9 | 70.6 |
| 137 | 1 | 2.9 | 2.9 | 73.5 |
| 143 | 1 | 2.9 | 2.9 | 76.5 |
| 144 | 1 | 2.9 | 2.9 | 79.4 |
| 153 | 1 | 2.9 | 2.9 | 82.4 |
| 164 | 1 | 2.9 | 2.9 | 85.3 |
| 166 | 1 | 2.9 | 2.9 | 88.2 |
| 174 | 1 | 2.9 | 2.9 | 91.2 |
| 182 | 2 | 5.9 | 5.9 | 97.1 |
| 187 | 1 | 2.9 | 2.9 | 100.0 |
| Total | 34 | 100.0 | 100.0 |  |

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**GGraph**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 23-MAR-2022 00:00:49 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=MORTALITYRATE MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE TEMPLATE=["C:\PROGRA~1\IBM\SPSSST~1\Looks\Pastels.sgt"] /COLORCYCLE COLOR1(165,223,249), COLOR2(239,82,133), COLOR3(96,197,186), COLOR4(254,238,125), COLOR5(120,155,230), COLOR6(249,205,173), COLOR7(239,120,166), COLOR8(207,240,218), COLOR9(144,142,234), COLOR10(239,137,137), COLOR11(246,245,230), COLOR12(210,145,236), COLOR13(223,217,139), COLOR14(197,155,112), COLOR15(146,97,163), COLOR16(206,201,181), COLOR17(152,118,177), COLOR18(246,134,87), COLOR19(251,255,185), COLOR20(200,158,196), COLOR21(250,218,216), COLOR22(171,208,206), COLOR23(251,255,185), COLOR24(167,156,142), COLOR25(185,255,231), COLOR26(186,102,110), COLOR27(153,241,158), COLOR28(150,145,145), COLOR29(63,235,124), COLOR30(105,41,196) /FRAME OUTER=NO INNER=NO /GRIDLINES XAXIS=NO YAXIS=YES /STYLE GRADIENT=NO. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: MORTALITYRATE=col(source(s), name("MORTALITYRATE")) GUIDE: axis(dim(1), label("MORTALITYRATE")) GUIDE: axis(dim(2), label("Frequency")) GUIDE: text.title(label("Mortality Rate")) ELEMENT: interval(position(summary.count(bin.rect(MORTALITYRATE))), shape.interior(shape.square)) END GPL. |
| Resources | Processor Time | 00:00:00.17 |
| Elapsed Time | 00:00:00.15 |

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**GGraph**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 23-MAR-2022 00:11:00 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=PERCAPITAGCP MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE TEMPLATE=["C:\PROGRA~1\IBM\SPSSST~1\Looks\Pastels.sgt"] /COLORCYCLE COLOR1(165,223,249), COLOR2(239,82,133), COLOR3(96,197,186), COLOR4(254,238,125), COLOR5(120,155,230), COLOR6(249,205,173), COLOR7(239,120,166), COLOR8(207,240,218), COLOR9(144,142,234), COLOR10(239,137,137), COLOR11(246,245,230), COLOR12(210,145,236), COLOR13(223,217,139), COLOR14(197,155,112), COLOR15(146,97,163), COLOR16(206,201,181), COLOR17(152,118,177), COLOR18(246,134,87), COLOR19(251,255,185), COLOR20(200,158,196), COLOR21(250,218,216), COLOR22(171,208,206), COLOR23(251,255,185), COLOR24(167,156,142), COLOR25(185,255,231), COLOR26(186,102,110), COLOR27(153,241,158), COLOR28(150,145,145), COLOR29(63,235,124), COLOR30(105,41,196) /FRAME OUTER=NO INNER=NO /GRIDLINES XAXIS=NO YAXIS=YES /STYLE GRADIENT=NO. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: PERCAPITAGCP=col(source(s), name("PERCAPITAGCP")) GUIDE: axis(dim(1), label("PERCAPITAGCP")) GUIDE: axis(dim(2), label("Frequency")) GUIDE: text.title(label("Simple Line of PERCAPITAGCP")) ELEMENT: line(position(summary.count(bin.rect(PERCAPITAGCP))), missing.wings()) END GPL. |
| Resources | Processor Time | 00:00:00.17 |
| Elapsed Time | 00:00:00.14 |

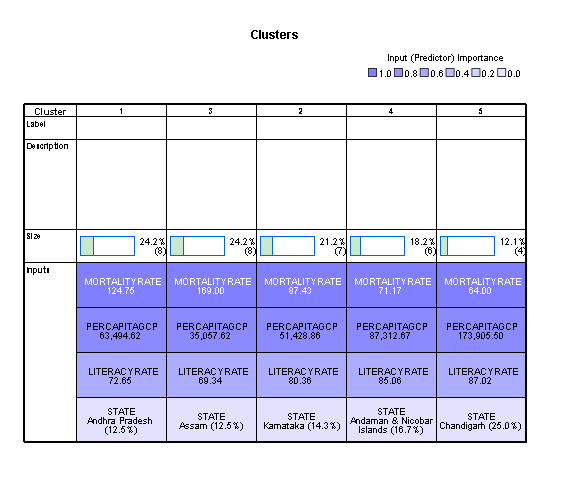
img.emf

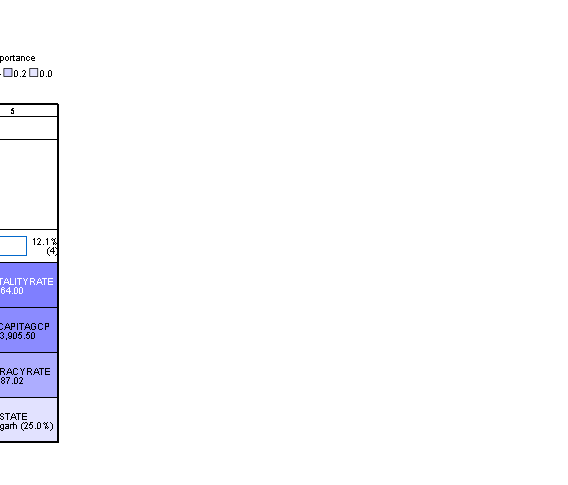
**GGraph**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 23-MAR-2022 00:13:04 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=PERCAPITAGCP MORTALITYRATE MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE TEMPLATE=["C:\PROGRA~1\IBM\SPSSST~1\Looks\Bright.sgt"] /COLORCYCLE COLOR1(215,0,51), COLOR2(85,150,230), COLOR3(41,134,38), COLOR4(243,103,42), COLOR5(227,215,16), COLOR6(0,180,160), COLOR7(255,60,160), COLOR8(115,64,152), COLOR9(95,195,56), COLOR10(62,99,208), COLOR11(228,52,192), COLOR12(208,202,140), COLOR13(204,134,63), COLOR14(119,55,143), COLOR15(236,230,208), COLOR16(69,70,71), COLOR17(92,202,136), COLOR18(208,83,52), COLOR19(181,77,213), COLOR20(225,188,29), COLOR21(234,39,103), COLOR22(28,205,205), COLOR23(92,113,72), COLOR24(225,139,14), COLOR25(9,38,114), COLOR26(90,100,94), COLOR27(219,39,128), COLOR28(150,145,145), COLOR29(63,235,124), COLOR30(105,41,196) /FRAME OUTER=NO INNER=NO /GRIDLINES XAXIS=NO YAXIS=YES /STYLE GRADIENT=NO. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: PERCAPITAGCP=col(source(s), name("PERCAPITAGCP")) DATA: MORTALITYRATE=col(source(s), name("MORTALITYRATE")) GUIDE: axis(dim(1), label("PERCAPITAGCP")) GUIDE: axis(dim(2), label("MORTALITYRATE")) GUIDE: text.title(label("Simple Bar of MORTALITYRATE by PERCAPITAGCP")) ELEMENT: interval(position(PERCAPITAGCP\*MORTALITYRATE), shape.interior(shape.square)) END GPL. |
| Resources | Processor Time | 00:00:00.14 |
| Elapsed Time | 00:00:00.14 |

**TwoStep Cluster**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 23-MAR-2022 00:27:15 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics are based on all cases with valid data for all variables in the analysis. |
| Syntax | | TWOSTEP CLUSTER /CATEGORICAL VARIABLES=STATE /CONTINUOUS VARIABLES=MORTALITYRATE PERCAPITAGCP LITERACYRATE /DISTANCE LIKELIHOOD /NUMCLUSTERS FIXED=5 /HANDLENOISE 0 /MEMALLOCATE 64 /CRITERIA INITHRESHOLD(0) MXBRANCH(8) MXLEVEL(3) /VIEWMODEL DISPLAY=YES. |
| Resources | Processor Time | 00:00:00.05 |
| Elapsed Time | 00:00:00.04 |
| Files Saved | Model | C:\Users\hp\AppData\Local\Temp\spss5952\tsctempm.26 |





**Descriptives**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 24-MAR-2022 22:10:27 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Missing Value Handling | Definition of Missing | User defined missing values are treated as missing. |
| Cases Used | All non-missing data are used. |
| Syntax | | DESCRIPTIVES VARIABLES=PERCAPITAGCP /SAVE /STATISTICS=MEAN STDDEV MIN MAX. |
| Resources | Processor Time | 00:00:00.02 |
| Elapsed Time | 00:00:00.01 |
| Variables Created or Modified | ZPERCAPITAGCP | Zscore(PERCAPITAGCP) |

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 24-MAR-2022 22:13:26 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=ZPERCAPITAGCP MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: ZPERCAPITAGCP=col(source(s), name("ZPERCAPITAGCP")) DATA: id=col(source(s), name("$CASENUM"), unit.category()) GUIDE: axis(dim(2), label("Zscore(PERCAPITAGCP)")) GUIDE: text.title(label("Simple Boxplot of Zscore(PERCAPITAGCP)")) ELEMENT: schema(position(bin.quantile.letter(1\*ZPERCAPITAGCP)), label(id)) END GPL. |
| Resources | Processor Time | 00:00:05.33 |
| Elapsed Time | 00:00:02.05 |

**GGraph**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 24-MAR-2022 22:15:41 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=ZPERCAPITAGCP MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE /COLORCYCLE COLOR1(95,195,56), COLOR2(0,93,93), COLOR3(159,24,83), COLOR4(250,77,86), COLOR5(87,4,8), COLOR6(25,128,56), COLOR7(0,45,156), COLOR8(238,83,139), COLOR9(178,134,0), COLOR10(0,157,154), COLOR11(1,39,73), COLOR12(138,56,0), COLOR13(165,110,255), COLOR14(236,230,208), COLOR15(69,70,71), COLOR16(92,202,136), COLOR17(208,83,52), COLOR18(204,127,228), COLOR19(225,188,29), COLOR20(237,75,75), COLOR21(28,205,205), COLOR22(92,113,72), COLOR23(225,139,14), COLOR24(9,38,114), COLOR25(90,100,94), COLOR26(155,0,0), COLOR27(204,127,228), COLOR28(150,145,145), COLOR29(63,235,124), COLOR30(105,41,196) /FRAME OUTER=NO INNER=NO /GRIDLINES XAXIS=NO YAXIS=YES /STYLE GRADIENT=NO. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: ZPERCAPITAGCP=col(source(s), name("ZPERCAPITAGCP")) DATA: id=col(source(s), name("$CASENUM"), unit.category()) GUIDE: axis(dim(2), label("Zscore(PERCAPITAGCP)")) GUIDE: text.title(label("Simple Boxplot of Zscore(PERCAPITAGCP)")) ELEMENT: schema(position(bin.quantile.letter(1\*ZPERCAPITAGCP)), label(id)) END GPL. |
| Resources | Processor Time | 00:00:00.89 |
| Elapsed Time | 00:00:00.35 |

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**Regression**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 24-MAR-2022 22:24:42 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics are based on cases with no missing values for any variable used. |
| Syntax | | REGRESSION /DESCRIPTIVES MEAN STDDEV CORR SIG N /MISSING LISTWISE /STATISTICS COEFF OUTS CI(95) R ANOVA /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT MORTALITYRATE /METHOD=ENTER LITERACYRATE PERCAPITAGCP /SCATTERPLOT=(\*ZRESID ,\*ZPRED) /RESIDUALS HISTOGRAM(ZRESID) NORMPROB(ZRESID). |
| Resources | Processor Time | 00:00:02.33 |
| Elapsed Time | 00:00:00.88 |
| Memory Required | 3104 bytes |
| Additional Memory Required for Residual Plots | 880 bytes |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| MORTALITYRATE | 110.45 | 43.755 | 33 |
| LITERACYRATE | 77.4785 | 8.49191 | 33 |
| PERCAPITAGCP | 71755.09 | 47616.143 | 33 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Correlations** | | | | |
|  | | MORTALITYRATE | LITERACYRATE | PERCAPITAGCP |
| Pearson Correlation | MORTALITYRATE | 1.000 | -.701 | -.525 |
| LITERACYRATE | -.701 | 1.000 | .579 |
| PERCAPITAGCP | -.525 | .579 | 1.000 |
| Sig. (1-tailed) | MORTALITYRATE | . | <.001 | <.001 |
| LITERACYRATE | .000 | . | .000 |
| PERCAPITAGCP | .001 | .000 | . |
| N | MORTALITYRATE | 33 | 33 | 33 |
| LITERACYRATE | 33 | 33 | 33 |
| PERCAPITAGCP | 33 | 33 | 33 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables Entered/Removed**a | | | |
| Model | Variables Entered | Variables Removed | Method |
| 1 | PERCAPITAGCP, LITERACYRATEb | . | Enter |
| a. Dependent Variable: MORTALITYRATE | | | |
| b. All requested variables entered. | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Model Summary**b | | | | |
| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
| 1 | .716a | .513 | .480 | 31.545 |
| a. Predictors: (Constant), PERCAPITAGCP, LITERACYRATE | | | | |
| b. Dependent Variable: MORTALITYRATE | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA**a | | | | | | |
| Model | | Sum of Squares | df | Mean Square | F | Sig. |
| 1 | Regression | 31410.674 | 2 | 15705.337 | 15.782 | <.001b |
| Residual | 29853.508 | 30 | 995.117 |  |  |
| Total | 61264.182 | 32 |  |  |  |
| a. Dependent Variable: MORTALITYRATE | | | | | | |
| b. Predictors: (Constant), PERCAPITAGCP, LITERACYRATE | | | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Coefficients**a | | | | | | |
| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
| B | Std. Error | Beta |
| 1 | (Constant) | 360.745 | 57.328 |  | 6.293 | <.001 |
| LITERACYRATE | -3.078 | .806 | -.597 | -3.821 | <.001 |
| PERCAPITAGCP | .000 | .000 | -.179 | -1.144 | .262 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Coefficients**a | | | | | |
| Model | | 95.0% Confidence Interval for B | | | |
| Lower Bound | | Upper Bound | |
| 1 | (Constant) | 243.666 | | 477.824 | |
| LITERACYRATE | -4.723 | | -1.433 | |
| PERCAPITAGCP | .000 | | .000 | |
|  |  |  |  | |  | |  |  |

|  |
| --- |
| a. Dependent Variable: MORTALITYRATE |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Residuals Statistics**a | | | | | |
|  | Minimum | Maximum | Mean | Std. Deviation | N |
| Predicted Value | 50.58 | 167.37 | 110.45 | 31.330 | 33 |
| Residual | -78.373 | 52.125 | .000 | 30.544 | 33 |
| Std. Predicted Value | -1.911 | 1.817 | .000 | 1.000 | 33 |
| Std. Residual | -2.484 | 1.652 | .000 | .968 | 33 |
| a. Dependent Variable: MORTALITYRATE | | | | | |

**Charts**

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**Discriminant**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 25-MAR-2022 00:34:50 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing in the analysis phase. |
| Cases Used | In the analysis phase, cases with no user- or system-missing values for any predictor variable are used. Cases with user-, system-missing, or out-of-range values for the grouping variable are always excluded. |
| Syntax | | DISCRIMINANT /GROUPS=MORTALITYRATE(0 5) /VARIABLES=LITERACYRATE PERCAPITAGCP /ANALYSIS ALL /PRIORS EQUAL /STATISTICS=UNIVF TCOV /CLASSIFY=NONMISSING POOLED. |
| Resources | Processor Time | 00:00:00.00 |
| Elapsed Time | 00:00:00.01 |

|  |
| --- |
| **Warnings** |
| There is only one non-empty group and .000 (0 unweighted) cases that are valid. Not enough non-empty groups. Not enough weighted or unweighted cases. |
| Execution of this command stops. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Analysis Case Processing Summary** | | | |
| Unweighted Cases | | N | Percent |
| Valid | | 0 | .0 |
| Excluded | Missing or out-of-range group codes | 33 | 97.1 |
| At least one missing discriminating variable | 0 | .0 |
| Both missing or out-of-range group codes and at least one missing discriminating variable | 1 | 2.9 |
| Total | 34 | 100.0 |
| Total | | 34 | 100.0 |

**Frequencies**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 25-MAR-2022 00:47:29 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics are based on all cases with valid data. |
| Syntax | | FREQUENCIES VARIABLES=MORTALITYRATE LITERACYRATE /ORDER=ANALYSIS. |
| Resources | Processor Time | 00:00:00.03 |
| Elapsed Time | 00:00:00.00 |

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| --- | --- | --- | --- |
| **Statistics** | | | |
|  | | MORTALITYRATE | LITERACYRATE |
| N | Valid | 34 | 34 |
| Missing | 0 | 0 |

**GGraph**

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| --- | --- | --- |
| **Notes** | | |
| Output Created | | 25-MAR-2022 00:50:38 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=MORTALITYRATE MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE TEMPLATE=["C:\PROGRA~1\IBM\SPSSST~1\Looks\Statistics26ChartLook.sgt"]. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: MORTALITYRATE=col(source(s), name("MORTALITYRATE")) GUIDE: axis(dim(1), label("MORTALITYRATE")) GUIDE: axis(dim(2), label("Frequency")) GUIDE: text.title(label("Simple Bar of MORTALITYRATE")) ELEMENT: interval(position(summary.count(bin.rect(MORTALITYRATE))), shape.interior(shape.square)) END GPL. |
| Resources | Processor Time | 00:00:00.14 |
| Elapsed Time | 00:00:00.11 |

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**GGraph**

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| **Notes** | | |
| Output Created | | 25-MAR-2022 00:52:08 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=MORTALITYRATE LITERACYRATE MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE TEMPLATE=["C:\PROGRA~1\IBM\SPSSST~1\Looks\Statistics26ChartLook.sgt"] /FITLINE TOTAL=NO SUBGROUP=NO /COLORCYCLE COLOR1(85,150,230), COLOR2(215,0,51), COLOR3(41,134,38), COLOR4(243,103,42), COLOR5(227,215,16), COLOR6(0,180,160), COLOR7(255,196,226), COLOR8(171,73,243), COLOR9(95,195,56), COLOR10(63,90,168), COLOR11(254,130,180), COLOR12(208,202,140), COLOR13(204,134,63), COLOR14(119,55,143), COLOR15(236,230,208), COLOR16(69,70,71), COLOR17(92,202,136), COLOR18(208,83,52), COLOR19(204,127,228), COLOR20(225,188,29), COLOR21(237,75,75), COLOR22(28,205,205), COLOR23(92,113,72), COLOR24(225,139,14), COLOR25(9,38,114), COLOR26(90,100,94), COLOR27(155,0,0), COLOR28(207,172,227), COLOR29(150,145,145), COLOR30(63,235,124) /FRAME OUTER=NO INNER=NO /GRIDLINES XAXIS=NO YAXIS=YES /STYLE GRADIENT=NO. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: MORTALITYRATE=col(source(s), name("MORTALITYRATE")) DATA: LITERACYRATE=col(source(s), name("LITERACYRATE")) GUIDE: axis(dim(1), label("MORTALITYRATE")) GUIDE: axis(dim(2), label("LITERACYRATE")) GUIDE: text.title(label("Scatter Plot of LITERACYRATE by MORTALITYRATE")) ELEMENT: point(position(MORTALITYRATE\*LITERACYRATE)) END GPL. |
| Resources | Processor Time | 00:00:00.20 |
| Elapsed Time | 00:00:00.15 |

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**GGraph**

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| **Notes** | | |
| Output Created | | 25-MAR-2022 00:54:56 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=MORTALITYRATE LITERACYRATE PERCAPITAGCP MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE TEMPLATE=["C:\PROGRA~1\IBM\SPSSST~1\Looks\Statistics26ChartLook.sgt"] /FITLINE TOTAL=NO SUBGROUP=NO /COLORCYCLE COLOR1(85,150,230), COLOR2(215,0,51), COLOR3(41,134,38), COLOR4(243,103,42), COLOR5(227,215,16), COLOR6(0,180,160), COLOR7(255,196,226), COLOR8(171,73,243), COLOR9(95,195,56), COLOR10(63,90,168), COLOR11(254,130,180), COLOR12(208,202,140), COLOR13(204,134,63), COLOR14(119,55,143), COLOR15(236,230,208), COLOR16(69,70,71), COLOR17(92,202,136), COLOR18(208,83,52), COLOR19(204,127,228), COLOR20(225,188,29), COLOR21(237,75,75), COLOR22(28,205,205), COLOR23(92,113,72), COLOR24(225,139,14), COLOR25(9,38,114), COLOR26(90,100,94), COLOR27(155,0,0), COLOR28(207,172,227), COLOR29(150,145,145), COLOR30(63,235,124) /FRAME OUTER=NO INNER=NO /GRIDLINES XAXIS=NO YAXIS=YES /STYLE GRADIENT=NO. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: MORTALITYRATE=col(source(s), name("MORTALITYRATE")) DATA: LITERACYRATE=col(source(s), name("LITERACYRATE")) DATA: PERCAPITAGCP=col(source(s), name("PERCAPITAGCP")) GUIDE: axis(dim(1), label("MORTALITYRATE")) GUIDE: axis(dim(2), label("LITERACYRATE")) GUIDE: text.title(label("Scatter Plot of LITERACYRATE, of PERCAPITAGCP by MORTALITYRATE")) TRANS: MORTALITYRATE\_LITERACYRATE=eval("MORTALITYRATE - LITERACYRATE") TRANS: MORTALITYRATE\_PERCAPITAGCP=eval("MORTALITYRATE - PERCAPITAGCP") ELEMENT: point(position(MORTALITYRATE\*LITERACYRATE), color.interior(MORTALITYRATE\_LITERACYRATE)) ELEMENT: point(position(MORTALITYRATE\*PERCAPITAGCP), color.interior(MORTALITYRATE\_PERCAPITAGCP)) END GPL. |
| Resources | Processor Time | 00:00:00.19 |
| Elapsed Time | 00:00:00.16 |

**GGraph**

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| **Notes** | | |
| Output Created | | 25-MAR-2022 00:56:04 |
| Comments | |  |
| Input | Data | D:\Insurance Project\Mortality Rate Prediction\mortality.sav |
| Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 34 |
| Syntax | | GGRAPH /GRAPHDATASET NAME="graphdataset" VARIABLES=MORTALITYRATE PERCAPITAGCP MISSING=LISTWISE REPORTMISSING=NO /GRAPHSPEC SOURCE=INLINE TEMPLATE=["C:\PROGRA~1\IBM\SPSSST~1\Looks\LegacyDefault.sgt"] /FITLINE TOTAL=NO /COLORCYCLE COLOR1(40,42,115), COLOR2(46,184,72), COLOR3(211,206,151), COLOR4(124,40,125), COLOR5(251,248,115), COLOR6(239,51,56), COLOR7(72,194,197), COLOR8(204,204,204), COLOR9(122,170,213), COLOR10(10,86,44), COLOR11(248,152,29), COLOR12(221,186,241), COLOR13(26,95,118), COLOR14(204,255,204), COLOR15(187,63,127), COLOR16(153,153,153), COLOR17(0,0,0), COLOR18(182,231,232), COLOR19(255,255,255), COLOR20(121,122,167), COLOR21(112,220,132), COLOR22(51,51,51), COLOR23(172,208,238), COLOR24(162,22,25), COLOR25(93,97,255), COLOR26(228,228,228), COLOR27(36,139,172), COLOR28(184,155,201), COLOR29(102,102,102), COLOR30(13,141,70) /FRAME OUTER=NO INNER=NO /GRIDLINES XAXIS=NO YAXIS=NO /STYLE GRADIENT=NO. BEGIN GPL SOURCE: s=userSource(id("graphdataset")) DATA: MORTALITYRATE=col(source(s), name("MORTALITYRATE")) DATA: PERCAPITAGCP=col(source(s), name("PERCAPITAGCP")) GUIDE: axis(dim(1), label("MORTALITYRATE")) GUIDE: axis(dim(2), label("PERCAPITAGCP")) GUIDE: text.title(label("Scatter Plot of PERCAPITAGCP by MORTALITYRATE")) ELEMENT: point(position(MORTALITYRATE\*PERCAPITAGCP)) END GPL. |
| Resources | Processor Time | 00:00:00.17 |
| Elapsed Time | 00:00:00.15 |

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