DATASET ACTIVATE DataSet1.

DATASET ACTIVATE DataSet1.

\*Create simulation plan.

FILE HANDLE simplan\_592224 /NAME=

'C:\Users\Mulindwa\AppData\Local\IBM\SPSS\Statistics\27\SimulationPlan\_2.splan'.

SIMPLAN CREATE

/CONTINGENCY MULTIWAY=NO

/SIMINPUT INPUT=AdultMortality(FORMAT=F,2) OUTPUT=YES TYPE=MANUAL(LOCK=NO SAVEASFITTED=YES)

DISTRIBUTION=WEIBULL(A=173.387597951885 B=1.24492454528809 C=0 )

/SIMINPUT INPUT=GDP(FORMAT=F,2) OUTPUT=YES TYPE=MANUAL(LOCK=NO SAVEASFITTED=YES)

DISTRIBUTION=LNORMAL(A=1750.67770545121 B=1.87857248063387 )

/SIMINPUT INPUT=Lifeexpectancy(FORMAT=F,2) OUTPUT=YES TYPE=MANUAL(LOCK=NO SAVEASFITTED=YES)

DISTRIBUTION=WEIBULL(A=73.3886827345397 B=8.97658920288086 C=0 )

/AUTOFIT NCASES=ALL FIT=AD BINS=100

/STOPCRITERIA MAXCASES=100000

/MISSING CLASSMISSING=EXCLUDE

/PLAN FILE=simplan\_592224 DISPLAY=YES.

**Simulation Plan**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 06-SEP-2024 12:11:51 |
| Comments | |  |
| Input | Data | C:\Users\Mulindwa\Downloads\Telegram Desktop\QN (2).sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 2938 |
| Syntax | | SIMPLAN CREATE  /CONTINGENCY MULTIWAY=NO  /SIMINPUT INPUT=AdultMortality(FORMAT=F,2) OUTPUT=YES TYPE=MANUAL(LOCK=NO SAVEASFITTED=YES)  DISTRIBUTION=WEIBULL(A=173.387597951885 B=1.24492454528809 C=0 )  /SIMINPUT INPUT=GDP(FORMAT=F,2) OUTPUT=YES TYPE=MANUAL(LOCK=NO SAVEASFITTED=YES)  DISTRIBUTION=LNORMAL(A=1750.67770545121 B=1.87857248063387 )  /SIMINPUT INPUT=Lifeexpectancy(FORMAT=F,2) OUTPUT=YES TYPE=MANUAL(LOCK=NO SAVEASFITTED=YES)  DISTRIBUTION=WEIBULL(A=73.3886827345397 B=8.97658920288086 C=0 )  /AUTOFIT NCASES=ALL FIT=AD BINS=100  /STOPCRITERIA MAXCASES=100000  /MISSING CLASSMISSING=EXCLUDE  /PLAN FILE=simplan\_592224 DISPLAY=YES. |
| Resources | Processor Time | 00:00:00.03 |
| Elapsed Time | 00:00:00.10 |
| Files Saved | Simulation Plan File | C:\Users\Mulindwa\AppData\Local\IBM\SPSS\Statistics\27\SimulationPlan\_2.splan |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Model Type: None** | | | | | | | |
|  | Label | Simulation Role | Type | Measurement Level | Format | Filters | |
| Min | Max |
| AdultMortality |  | Input | Numeric | Scale | F,2 | . | . |
| GDP |  | Input | Numeric | Scale | F,2 | . | . |
| Lifeexpectancy |  | Input | Numeric | Scale | F,2 | . | . |

|  |  |  |  |
| --- | --- | --- | --- |
| **Input Distributions** | | | |
|  | | | Parameter Value |
| AdultMortality | Weibull | a | 173.388 |
| b | 1.245 |
| c | .000 |
| GDP | Lognormal | a | 1750.678 |
| b | 1.879 |
| Lifeexpectancy | Weibull | a | 73.389 |
| b | 8.977 |
| c | .000 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Correlations** | | | |
|  | AdultMortality | GDP | Lifeexpectancy |
| AdultMortality | 1.000 | -.296 | -.688 |
| GDP | -.296 | 1.000 | .461 |
| Lifeexpectancy | -.688 | .461 | 1.000 |

|  |  |
| --- | --- |
| **Stopping Criteria** | |
| Maximum cases | 100000 |

**Simulation Run**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 06-SEP-2024 12:11:51 |
| Comments | |  |
| Input | Data | C:\Users\Mulindwa\Downloads\Telegram Desktop\QN (2).sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 2938 |
| Syntax | | SIMRUN  /PLAN FILE=simplan\_592224  /CRITERIA REPRESULTS=TRUE SEED=629111597  /PRINT ASSOCIATIONS=YES DESCRIPTIVES=YES PERCENTILES=NO  /OUTFILE FILE=DataSet4. |
| Resources | Processor Time | 00:00:00.22 |
| Elapsed Time | 00:00:00.17 |
| Files Saved | Simulated Cases File | DataSet4 |

|  |  |
| --- | --- |
| **Simulation Summary** | |
| Maximum cases | 100000 |
| Total simulated cases | 100000 |
| Simulation Plan File: C:\Users\Mulindwa\AppData\Local\IBM\SPSS\Statistics\27\SimulationPlan\_2.splan  Cases may be filtered because of either targets or inputs that are outside of the specified ranges. Filtered cases are not included in the simulated cases count. | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Descriptive Statistics of Scale Inputs** | | | | |
|  | Mean | Std. Deviation | Minimum | Maximum |
| AdultMortality | 161.859 | 130.889 | .00 | 1310.04 |
| GDP | 10023.890 | 55601.587 | .54 | 7825510.99 |
| Lifeexpectancy | 69.474 | 9.260 | 16.41 | 97.40 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Correlations** | | | |
|  | AdultMortality | GDP | Lifeexpectancy |
| AdultMortality | 1.000 | -.160 | -.687 |
| GDP | -.160 | 1.000 | .104 |
| Lifeexpectancy | -.687 | .104 | 1.000 |
| Correlations between simulated inputs may differ from correlations specified for those inputs in the simulation plan. | | | |