**PATAN MULTIPLE CAMPUS**

Practical – 4 Descriptive Statistics

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| --- | --- |
| Roll No.: 23 | Date: 2081-05-30 |
| Program: BIT | Semester: 2nd |
| Subject: Basic Statistics | Section: A |

**Question**: Find no. of observation, minimum value, maximum value, mean, median, quartiles, range, interquartile range, quartile deviation, coefficient of variation, skewness, kurtosis and outlier value of the following observations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Age | 18 | 21 | 19 | 20 | 22 | 17 | 19 | 20 | 23 |
| Height | 150 | 162 | 158 | 145 | 175 | 152 | 154 | 145 | 165 |
| Weight | 54 | 65 | 66 | 54 | 85 | 55 | 56 | 59 | 65 |
| GPA | 3.32 | 4.00 | 2.56 | 3.21 | 2.96 | 2.80 | 3.56 | 3.69 | 3.37 |
| Expenditure | 500 | 1100 | 300 | 550 | 5000 | 1500 | 1800 | 2000 | 2150 |

**Working Expressions:**

**Calculation**:

1. **Data**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Age | 18 | 21 | 19 | 20 | 22 | 17 | 19 | 20 | 23 |
| Height | 150 | 162 | 158 | 145 | 175 | 152 | 154 | 145 | 165 |
| Weight | 54 | 65 | 66 | 54 | 85 | 55 | 56 | 59 | 65 |
| GPA | 3.32 | 4.00 | 2.56 | 3.21 | 2.96 | 2.80 | 3.56 | 3.69 | 3.37 |
| Expenditure | 500 | 1100 | 300 | 550 | 5000 | 1500 | 1800 | 2000 | 2150 |

1. **Syntax**

DATASET ACTIVATE DataSet0.

FREQUENCIES VARIABLES=age height weight expenditure gpa

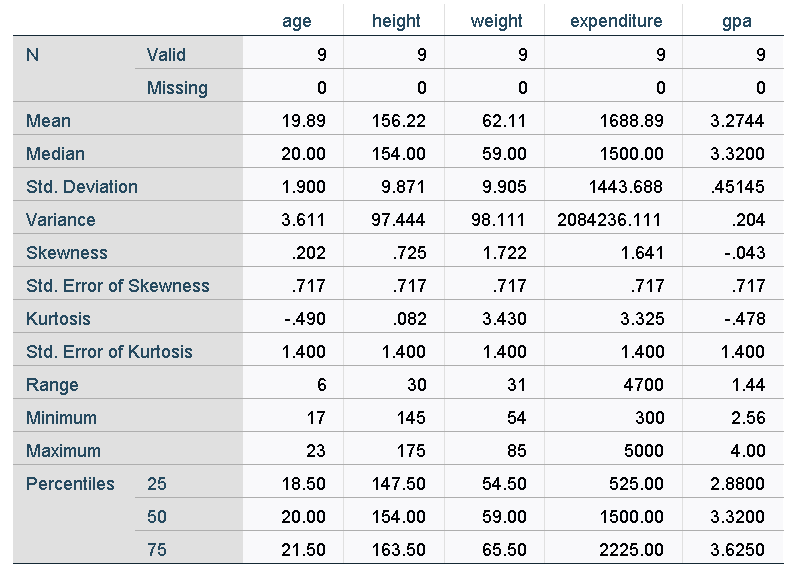
/FORMAT=NOTABLE

/NTILES=4

/STATISTICS=STDDEV VARIANCE RANGE MINIMUM MAXIMUM MEAN MEDIAN SKEWNESS SESKEW KURTOSIS SEKURT

/ORDER=ANALYSIS.

1. **Output**

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