**NMIMS**

**Course:** Decision Science

**Internal Assignment for June 2020 Examination**

**1. Identify the type of the variable in the following table**

**TABLE GIVEN BELOW**

|  |  |  |
| --- | --- | --- |
|  | **Variable** | **Data Type** |
| **a** | **Gender** |  |
| **b** | **Education Background** |  |
| **c** | **Satisfaction** |  |
| **d** | **Motivation** |  |
| **e** | **Exchange Rate** |  |
| **f** | **Gold price** |  |
| **g** | **Preference of cars** |  |

**2. Following data of performance scores is available of employees working with a company. You are required to perform the following:**

**a. Make the frequency distribution, Calculate the frequency and the Cumulative frequency**

**b. Calculate the mean, median, quartiles and Mode**

**c. Calculate the variance and the standard deviation**

**Table: Performance score of the employees:**

**TABLE BELOW**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **52** | **33** | **70** | **95** | **57** | **61** | **47** | **60** |
| **57** | **64** | **54** | **94** | **38** | **61** | **89** | **48** |
| **50** | **39** | **94** | **63** | **59** | **31** | **88** | **46** |
| **68** | **88** | **93** | **48** | **82** | **82** | **72** | **73** |
| **74** | **70** | **92** | **76** | **98** | **91** | **80** | **68** |
| **32** | **33** | **31** | **75** | **54** | **48** | **62** | **53** |
| **36** | **64** | **63** | **66** | **92** | **98** | **91** | **42** |
| **36** | **54** | **71** | **86** | **84** | **55** | **33** | **43** |
| **91** | **34** | **64** | **67** | **89** | **78** | **47** | **62** |
| **97** | **92** | **53** | **56** | **68** | **55** | **36** | **67** |
| **93** | **42** | **51** | **77** | **36** | **93** | **51** | **66** |
| **44** | **66** | **63** | **33** | **68** | **79** | **92** | **76** |
| **83** | **53** | **86** | **76** | **35** | **40** | **43** | **46** |
| **55** | **41** | **36** | **39** | **42** | **96** | **42** | **77** |
| **60** | **53** | **38** | **51** | **95** | **56** | **93** | **63** |
| **48** | **69** | **49** | **33** | **95** | **37** | **83** | **64** |
| **83** | **62** | **96** | **34** | **85** | **32** | **40** | **85** |
| **39** | **59** | **77** | **62** | **35** | **34** | **39** | **92** |
| **54** | **89** | **36** | **45** | **83** | **34** | **86** | **90** |
| **39** | **61** | **88** | **86** | **55** | **33** | **77** | **40** |
| **69** | **54** | **30** | **38** | **79** | **77** | **44** | **59** |
| **95** | **34** | **38** | **91** | **80** | **90** | **58** | **40** |
| **88** | **45** | **95** | **71** | **80** | **43** | **89** | **53** |
| **61** | **40** | **31** | **61** | **58** | **53** | **88** | **94** |
| **91** | **63** | **60** | **94** | **98** | **53** | **53** | **45** |
| **50** | **34** | **75** | **74** | **90** | **98** | **87** | **66** |

**Answer**: a) **Make the frequency distribution, Calculate the frequency and the Cumulative frequency**

|  |  |  |  |
| --- | --- | --- | --- |
| **performance**  **scores** | **Mid**  **Point\*** | **frequency** | **Cumulative**  **frequency** |
| 30-39 | 34.5 | 36 | 36 |
| 40-49 | 44.5 | 27 | 63 |
| 50-59 | 54.5 | 32 | 95 |
| 60-69 | 64.5 | 33 | 128 |
| 70-79 | 74.5 | 21 | 149 |

**3. a. In continuation with the data of performance scores of employees in previous example, perform the following:**

**a. Calculate the range and inter-quartile range**

**b. Calculate the z scores**

**c. Calculate the skewness and Kurtosis (using excel)**

**d. Comment on the distribution of the data**

**3. b. In continuation with the data of performance scores of employees in previous example, perform the following:**

**a. Make the histogram**

**b. Plot the box-plot diagram**

**c. Plot the frequency polygon**

**d. Plot the Ogive diagram**

**Answer**: a. **a. Calculate the range and interquartile range**

**Range**

The range often is defined as the difference between the largest and smallest numbers. The range for the data in Table above is 68 (98Its half solved sample only

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