**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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