**Preliminaries for Data Analysis**

Instructions:

Please share your answers filled inline in the word document. Submit Python code and R code files wherever applicable.

Please ensure you update all the details:

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**Topic: Preliminaries for Data Analysis**

Q1) Identify the Data type (Continuous/Discrete) for the Following:

|  |  |
| --- | --- |
| Activity | Data Type |
| Number of beatings from Wife | Discrete |
| Results of rolling a dice | Discrete |
| Weight of a person | continuous |
| Weight of Gold | continuous |
| Distance between two places | continuous |
| Length of a leaf | continuous |
| Dog's weight | continuous |
| Blue Color | Discrete |
| Number of kids | Discrete |
| Number of tickets in Indian railways | Discrete |
| Number of times married | Discrete |
| Gender (Male or Female) | Discrete |
| Voltage | Continuous |
| Speed of the car | Continuous |
| Distance between planets | Continuous |
| The size of a two a bedroom flat | Continuous |
| Wind speed | Continuous |
| Facebook likes | Discrete |
| Votes in election | Discrete |
| Make up kits purchased | Discrete |
| Death toll in flood disaster | Discrete |
| The waiting time of customers in bank | continuous |
| Price of iPhone in the market | continuous |
| Stolen Cars | continuous |

Q2) Identify the Data types, which were among the following

Hint: Nominal, Ordinal, Interval, Ratio

|  |  |
| --- | --- |
| Data | Data Type |
| Gender | nominal |
| High School Class Ranking | ordinal |
| Celsius Temperature | interval |
| Weight | ratio |
| Hair Color | nominal |
| Socioeconomic Status | ordinal |
| Fahrenheit Temperature | interval |
| Height | ratio |
| Type of living accommodation | ordinal |
| Level of Agreement | ordinal |
| IQ (Intelligence Scale) | interval |
| Sales Figures | ratio |
| Blood Group | nominal |
| Time of Day | ordinal |
| Time on a Clock with Hands | interval |
| Number of Children | range |
| Religious Preference | nominal |
| Barometer Pressure | interval |
| SAT Scores | interval |
| Years of Education | range |
| Size of egg | Range |
| Monthly Income | ratio |
| Unemployment rate | ratio |
| Military Rank | ordinal |
| Shoe size | ordinal |
| Pulse rate | ratio |
| Vital capacity | interval |
| Favorite candy bar | nominal |
| Name of the Grains | nominal |
| Pesticides level | ordinal |
| Tribe of origin | nominal |
| Help Desk Service Satisfaction Score | Ordinal |
| Ethnicity | nominal |
| Marital status | nominal |
| Type of Residence | nominal |
| Swimming level | ordinal |
| Amount of Money | ratio |
| Colors of paint | nominal |
| Weekly Food spending | ratio |

Q3) Identify whether the Data is Qualitative or Quantitative for the following:

|  |  |
| --- | --- |
| Data | Data Type (Qualitative/Quantitative) |
| I bought Strawberry lipstick today | qualitative |
| Happiness rating | qualitative |
| Duration of red-light signal | Quantitative |
| I like butterscotch ice cream | qualitative |
| Setosa belongs to Iris family of flowers | qualitative |
| cold Coffee | qualitative |
| The Tea smells good | qualitative |
| Dress Size | Quantitative |

Q4) Identify whether the Data is Categorical or Numerical for the following

|  |  |
| --- | --- |
| Data | Data Type (Categorical / Numerical) |
| Product type | categorical |
| Native language | categorical |
| Type of teaching approach | categorical |
| Virus in a System | categorical |
| Covid-19 Positive Cases | numerical |
| Lockdown Days | numerical |

Q5) Identify whether the Data is Structured or Unstructured for the following

|  |  |
| --- | --- |
| Data | Data Type (Structured/Unstructured) |
| Credit card numbers | structured |
| Transaction information | structured |
| Text files | unstructured |
| Images | unstructured |
| Music files | unstructured |
| Credit card numbers | structured |