# CORELIA – Data Science Program

## Report - 1

***Please, Find the differences between:***

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| --- | --- |
| Random Data | Sample Data |
| Descriptive data | **Inferential Data** |
| Qualitative | **Quantitative** |
| Parameter | **Statistic** |
| Ordinal | **Nominal** |
| Continuous | **Discrete** |

|  |  |
| --- | --- |
| **Random Data** | **Sample Data** |
| It is data that generated randomly doesn’t follow any pattern | Is a subset of large population for propose of analysing large population using this sample |
| **Descriptive data** | **Inferential Data** |
| It is used to describe and summarize the dataset using metrics for describing center of data such as mean, median.  spreadability of data using metrics such as Range , 1Q , 3 Q | It is used to get a good understanding about population data by analyzing the samples |
| **Qualitative** | **Quantitative** |
| For Non-numerical data to describe the characters of phenomena such as Gender we can use descriptive statics to describe the this phenomena using metrics such as frequency | Contains numerical data such as tall of person.  We can use descriptive statistic to describe the this phenomena using metrics such as Mean, median, range,Q1 , Q2 , etc |
| **Parameter** | **Statistic** |
| Is a number that describes the whole population | Is a number that describes a sample |
| **Ordinal** | **Nominal** |
| Is a type of categorical data it contains values doesn’t have specific order such as Gender | Is a type of categorical data it contains values have specific order or rank such as Degree Good, Very Good, Good , etc |
| **Continuous** | **Discrete** |
| It a type of numerical data that always have value in specific range such as Tempeture | It a type of numerical data that have specific values such number of students in class . |

Resources:

Aubrie Holman: <https://www.youtube.com/watch?v=hxLUdXsvbMY>

Stat Quest: <https://www.youtube.com/@statquest>

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