**PROJECT AREA & POWER BI FEATURES**

**PROJECT AREA**

Statistics is the branch of mathematics that deals with data. Data is a collection of values. For most of what we do, it will be numerical data (such as the literacy rate, the no. of graduates of a state). A collection of data is often referred to as a data set or set of data¸ but other words such as a list or simply collection are also often used.

**POWER BI FEATURES**

* **Get Data**
  + Identify and connect to a data source
  + Get data from a relational database, like Microsoft SQL Server
  + Get data from a file, like Microsoft Excel
  + Get data from applications
  + Get data from Azure Analysis Services
  + Select a storage mode
  + Fix performance issues
  + Resolve data import errors
* **Transform Data**
  + Changing the Table Name.
  + Remove the First Row.
  + Replace Null Value.
  + Remove Unnecessary Rows.
  + Rename Column Headings.
  + Separating into two Columns.
  + Merge Columns.

**Visualisation**

* **Bar charts :**

**These are mostly used graphs because they are simple to create and easy to understand. Bar charts are also called horizontal charts that represent the absolute data. They are useful to display the data that include**

**negative values because it is possible to position the bars above and below the x-axis.**

* **Heat Map :**

**These is a custom visualization available with Power BI to show the data numbers through presentation or visual. The heat map will show the highest data density on one specific set of the area through dark heated color, and others will have the same heat as the highest value.**

* **Scatter charts :**

**These are used to visualize the data using the dots that represent the values obtained from two different variables, such as the x-axis and y-**

**axis. These charts are used to show the relationship between two different variables. It is also called a correlation plot because it shows how two variables are correlated to each other.**

**NOTE:- Also we may use some filters(report level , page level ) and Roll-up , Drill down operations also.**