EXP-6

Dula Visualization Using PowerBI

Aim:

To Learn the PowerBI desktop interface and workflow by connecting to excel/CSV data source.Create basic visualization and assembling an interactive dashboard.

Procedure:

1. Open PowerBi Desktop & Inspect Interface

2. Connect to data Sources

    (a) Excel:

- Home→Get data→Excel→ choose file

    (b)CSV

- Home →Get data→ Text/CSV →choose file

3. Clean and Transform data

4. Create basic visualizations.

    (a)Bar chart - Sales by category.

    (b) Line Chart - Monthly sales Trend

(C) Pie/Donut Chart - Sales proportion by region

(d) Card Visuals key KPI's

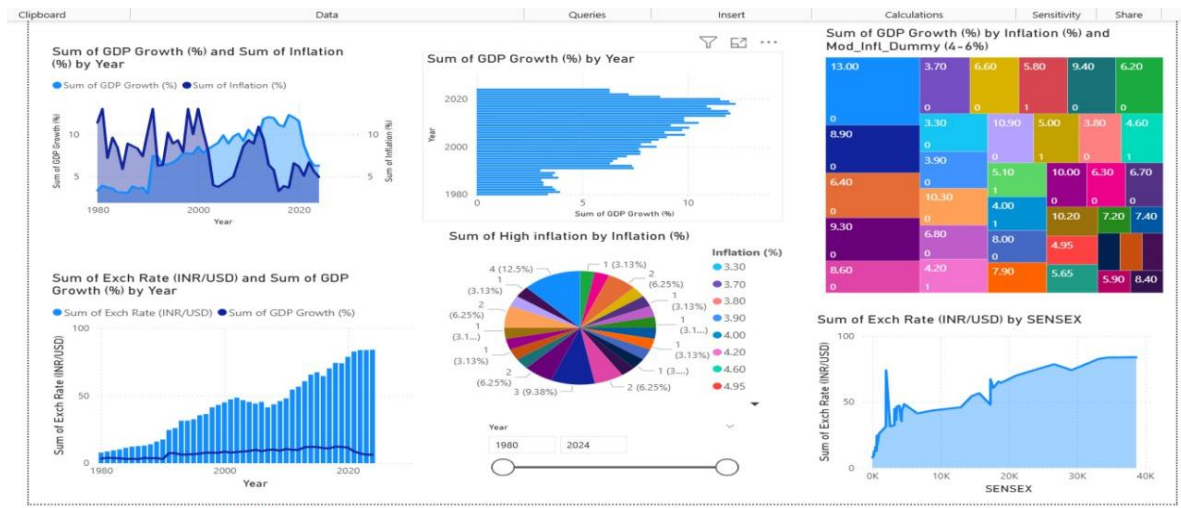5. Build a dashboard-like Report Page

(a) Arrange visuals into a clean layout:

    (i)   Top you, KPI Cards and a date/region
    (ii)   Left Column: bar chart & table
    (iii)   Right Column:line chart & pie/Donut

(b) Add titles, tooltips, and consistent formatting

(c)Save the .plix file.

Output:

Result:

        Thus PowerBI Interface and Workflow was learnt Successfully

Exp 7

Data visualization using tableau

Aim:

To understand the Tableau interface and Perform datu visualization like bar chart, line chart, pie chart by connecting to various data sources.

Procedure:

1. Launch Tableau and Explore Interface

2. Connect to Data

   (a)EXCEL:

      (i)click connect → Microsoft Excel

   (b)CSV:

      (ii)Click Add→Text file and import CSV

3. Buid Basic Visualizations.

   (a) Bus Chart (Sales by category)
   - Category to columns, total sales to rows.

   (b)Line chart (Monthly trend)
   - Date to columns, Total Sales to rows.

(c)pie chart (Sales by region).

- Region to column, Total Sales to Angle.
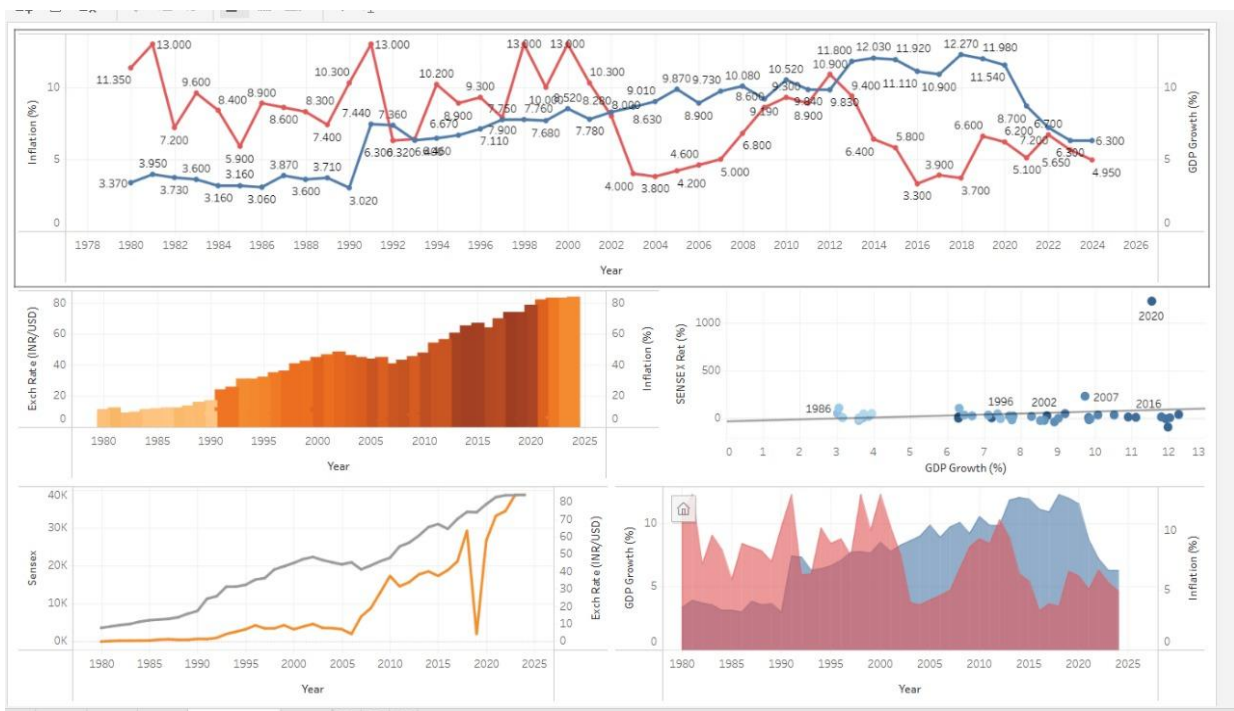
4.Create Calculated Fields:

- Click Analysis → Create Calculated Field
- Example:
  Total Sales=[Quantity]*[UnitPrice]

5.Build Dashboard

- Go to Dashboard → New Dashboard
- Drag visuals onto Layout
- Adjust Interactivity

OUTPUT:

Result:

Thus Tableau Interface and Workflow was learnt Successfully