This is a Do-It-Yourself (DIY) activity, and submissions are not required. The aim is to enhance your skills through hands-on experience with Power BI. Collaborate with peers in discussions to deepen understanding and jointly solve the activity. Any doubts related to this activity can be asked within the WA Group as Trisha Ma'am is part of the Group.

DataSets: ***Link***

The date format in the source data csv files is dd/mm/yyyy. If your date format is mm/dd/yyyy then change it by going on the regional settings.

1. Get all csv files under the actuals folder and combine all files in Power BI
2. Go to Transform and make some amendments
3. Delete source.Name column which got added automatically when alln files were combined
4. Load this to the data model

Load all the data to Power query viz:

a. Budgets
b. CostElements
c. Departments
d. Forecast
e. Regions
5. Calendar

Power Query Editor

In the **'Calendar Table'** get the Start of the Month

1. Start if the year
2. Year
3. Week
4. Quarter
5. Month

In the Budget Table:

1. Convert the Budget to currency ($)

In **'Forecast Table'** Table:

1. Replace 'United States of America' to 'USA'
2. Convert Cost element column to Proper case

Start with Data Labels:

- Create relationships between all "Dimension tables" to "Fact Table" using common columns
    - Fact Tables:
        - Cost Elements
        - Departments

        - Region
    - Dimension Tables:
        - Forecast
        - Budget
        - Actuals
        - Calendar

Measures:

Create measure table and add measures given below:

1. Total Budget
2. Total Forecast
3. Budget vs Forecast (number)– Total budget – Total Forecast
4. Budget v/s Forecast % - Budget vs Forecast(number)/Total Forecast
5.

Visualisation

1. Create a guage chart Budget v/s Actuals
    a. Sum of Actuals in the values
    b. Sum of Budget in the Target Value
    c. Sum of Forecast
2. Create a line chart to show actual budget and forecast again each year and month
3. Create column chart to show Date in x axis and Budget v/s forecast % in Y axis. Add Data Lables
4. Budget v/s Forecast % against Cost Elements. So
5. Add Slicer for IT Area and connect all charts. Go to format this visual and under slicer settings change the style to Dropdown

Add another Page to the report and rename it to Region

1. Create Clustered Bar chart and show budget and actuals for each region

   Actuals and Budget in Y axis and Region in X axis. Add data labels

2. Add a matrix table to show IT area in rows and Region in columns
3. Add new Matrix table to show ‘IT department’ in rows, Budget and Actuals in values
4. Add Data bars in Actuals with blue color and then sort on actuals by IT department
5. Create a filled map. Actual cost by country

Now publish your report on your workspace and then open the link to see your report that you have created