Experiment Number: 01

Aim:

Installation and overview in power BI Desktop.

Procedure:

- Users can select a language in which they want to install Power BI and following files are available for download.

- This is the link to directly download Power BI files –
- https://www.microsoft.com/en-us/download/details.aspx?id=45331

- PBIDesktop_x64.msi shows a 64-bit OS file. Select the file you want to install as per OS type and click Next. Save the installation file on the local drive.

- When you run the installation file, following screen is displayed.

- Click on Next to continue the process of installing the software.

- Accept the License agreement and click on Next.

- Check the box for creating the desktop shortcut for easy access and then click install.

- Click on Yes to allow app to change in your device and choose the path where to install.

- Follow the status bar until the installation.

- When Power BI is installed, it launches a welcome screen. This screen is used to launch different options related to get data, enrich the existing data models, create reports as well as publish and share reports.

Experiment Number: 02

Aim:

Import the data from different sources such as (Excel, SqlServer, Oracle etc.) and load in the target system.

Procedure:

1. Importing the Dataset:

- Launch Power BI Desktop.
- Click on "Get Data" in the Home tab of the ribbon.
- Select the appropriate data source option "Excel" and follow the prompts to import your sample dataset into Power BI.

2. Insert Rectangle Shape:

- Click on “Format tab” on right side and perform changes on visual.
- Shape > Style > #E66C37
- Shape > Text >Text = “Sales report” , Font Size = 46, Horizontal Alignment = “Center”.

Output:

Sales report

3. Add Card with Current Date:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Right-click anywhere in the "Fields" pane and select "New Measure" from the context menu. This will open the formula bar at the top.
- In the formula bar, enter the following DAX formula to create a measure that calculates the current date**:**

  CurrentDate = Now()
- Press Enter to apply the formula.
- Visualization >Format Visual > General > Effects > Background Color : #E6E6E6
- Visualization > Format Visual >Visual > Category Label > Font Size = 12

Output:

4. Create Stacked Bar Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”Category”
- Visualizations >Build Visuals >Fields > X-Axis =”Sales”
- Visualizations >Format Visuals> Y-axis> Values >Color = #6B2328
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #E66C37
- Visualizations >Format Visuals> Y-axis> Values >Color = #6B2328
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #E66C37
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Bar> Technology > Color = #A1343C
- Visualizations >Format Visuals> Bar> Furniture > Color = #6D5A00
- Visualizations >Format Visuals> Bar> Office Supplies> Color = #09124F
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 18
- Visualizations >Format Visuals> Title> Text =”Sale by Category”
- Visualizations >Format Visuals> Title> Font Size =25
- Visualizations >Format Visuals> Effects> Background Color = #E6E6E6

Output:

5. Create a Card to display Sum of Sales:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Drag “Sales” to “Fields”.
- Visualization >Format Visual > General > Effects > Background Color : #E6E6E6
- Visualization > Format Visual >Visual > Category Label > Font Size = 24

Output:

6. Create a Card to display Total Orders:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Drag “OrderID” to “Fields” and change it to count orders.
- Visualization >Format Visual > General > Effects > Background Color : #E6E6E6
- Visualization > Format Visual >Visual > Category Label > Font Size = 24

Output:

7. Create a Card to display Total Orders:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Drag “Profit” to “Fields”.
- Visualization >Format Visual > General > Effects > Background Color : #E6E6E6
- Visualization > Format Visual >Visual > Category Label > Font Size = 24

Output:

8. Create Donut Chart:

- Drag “Regions” to Legend , “Sum of Sales” to Values.
- Visualizations > Build Visual > Legend > option =”Bottom Center”
- Visualizations > Build Visual > Legend > Text>Font =12
- Visualizations > Build Visual > Detail Labels >Position =”Center”
- Visualization >Format Visual > General > Effects > Background Color : #E6E6E6
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14

Output:

9. Create a Line Chart:

- Visualizations > Build Visual > X-axis =”Order Date” by Year, Quarter
- Visualizations > Build Visual > Y-axis =”Sum of Sales”
- Visualizations > Format Visual > Visual > X-axis > Color = #0D6ABF

- Visualizations > Format Visual > Visual > Y-axis > Color = #0D6ABF
- Visualizations > Format Visual > General > Title > Text > Font > 20
- Visualization >Format Visual > General > Effects > Background Color : #E6E6E6

Output:

10. Final Visual Format:

- Visualizations > Page Information > Name =”Sales report”
- Visualizations > Canvas Background > color = #12239E
- Visualizations > WallPaper > Color = #A0D1FF

Output:

Sales report
8/2/2023 10:32:46 AM
Time
Sum of Sales
2,326,534
Total Orders
5,111
Profit
292,297
Sales by Category
Technology
0.84M
Furniture
0.75M
Office Supplies
0.73M
Category
0.0M
0.5M
1.0M
Sum of Sales
Sales by Region
391.72K
739.81K
503.17K
691.83K
Region West East Central South
Sales by Year and Quarter
Sum of Sales
0.2M
0.0M
Jan 2020
Jul 2020
Jan 2021
Jul 2021
Jan 2022
Jul 2022
Jan 2023
Jul 2023
Sales report

Experiment Number: 03

Aim:

Perform the Extraction Transformation and Loading (ETL) on Data and build Relationship between Tables.

Procedure:

1. Importing the Dataset:

- Launch Power BI Desktop.
- Click on "Get Data" in the Home tab of the ribbon.
- Select the appropriate data source option "Excel" and follow the prompts to import yoursample dataset into Power BI.

2. Transform the Data:

- Home > queries > Transform Data

Output:

3. Use First Row as Headers:

- Select the First row of the table.
- Home > Transform > Use First Row as Headers.

Output:

4. Replace Values:

- Select one of the column from table in which we replace values.
- Home > Transform > Replace Values
- Replace the values by giving Existed value and the new text that need to get replaced in the **Value to Find** and **Replace with** textboxes.

Output:

5. Manage Columns:

- Home > Manage Columns > Choose Columns > Select the checkboxes of required columns
- Home > Manage Columns > Go to column > Select the req Column checkbox to go that column

Output:

6. Reduce Rows:

- Home > Keep Rows > keep top rows > Specify num of rows(Fig1)
- Similarly, keep bottom rows, keep range of rows are done
- Home > Remove Rows > Remove bottom rows > specify num of rows to be removed from bottom(Fig2)
- Similarly, Remove top rows, remove alternate rows can be done.

Output:

7. Split Column:

Output:

- Split Column By Delimiter

- Split Column By Number of Characters

- Split Column By Positions

- Similarly, Split Column By Uppercase to Lowercase, Split Column By Lowercase to Uppercase, Split Column By Digit to non-digit, Split column by non-digit to digit can be done.

8. Sort:

- Home > Sort > Sort Descending (Sort Highest to Lowest)

If we want to sort from lowest to highest then select Sort Ascending.

Output:

9. Group By:

- Home > Group By > Specify the column to Group By > Give the new column name and Operation to get the desired output.

Output:

	Ordertype name	Count
1	On Shop	973
2	Online Order	63
3	null	1

10. Create table:

- Home > Enter data > Create table by giving values to the columns

Output:

11. Merge Queries:

- Home > Merge Queries >Select a table and matching columns to create a merging table

Output:

12. Replacing Null values By Fill down or Fill up:

- Select a Column > Right Click > Select Fill option > Select Down

Output:

	Column1	Column2
1	Category name	Item name
2	Casual Wear	Jeans - Levis
3	Casual Wear	Jeans - Denim
4	Casual Wear	Jeans - Zara
5	Casual Wear	Jeans - Lega
6	Semi Formal	Shirt - PE
7	Semi Formal	Legin
8	Semi Formal	T-shirt
9	Formal	shirt
10	Formal	Shirt Louis
11	Formal	Indian Terrain
12	Formal	Shirt - Arrow
13	Accessories	Wallet
14	Accessories	Chain

13. Append Queries:

- Home > Append Queries > Select table to append
- Concatenate rows from two tables into a single table.

	SID	SName
1	1	Shiv
2	2	Ram
3	3	Mahi
4	4	Sakshi
5	5	Kritika

Output:

14. Data source Settings:

- Home > Data Source Settings > Change the path or loc of data (if needed).

- Open the power Bi desktop and Apply changes

Output:

15. Relationships between tables:

- Select Model View at left vertical tab.
- Create table relations with correlations with them.

Output:

Courses
CID
CNAME
Collapse
Student Courses
CID
Courses.CNAME
SID
Students.SNAME
Collapse
Students
SID
SNAME
Collapse
All tables
Properties
Cards
Show the database in the header when applicable
No
Show related fields when card is collapsed
Yes
Pin related fields to top of card
No

Experiment Number: 04

Aim:

Create different Advanced visualization in a report.

Procedure:

1. Importing the Dataset:

- Launch Power BI Desktop.
- Click on "Get Data" in the Home tab of the ribbon.
- Select the appropriate data source option "Excel" and follow the prompts to import your sample dataset into Power BI.

2. Importing Advance Visuals:

- To install them, first log in to the application
- Visualization > get more visuals > search for visuals > Click on ADD
- Add all mentioned visuals to the application i.e., Animated Bar Chart, Drill Down Donut Pro, Play Axis, WordCloud, SunBurst, Scroller

3. Creating Animated Bar Chart:

- Visualizations > Build Visual > Animated Bar Chart
- Visualizations > Build Visual > Name =”Sub Category”
- Visualizations > Build Visual > Value = “Sum of Sales”
- Visualizations > Build Visual > Period = “Order Date – Year”

Outputs per Year:

3. Creating Animated Bar Chart:

- Visualizations > Build Visual > Drill Down Donut Pro
- Visualizations > Build Visual > Category = “Category Hierarchy”
- Visualizations > Build Visual > Value = “Profit”
- Click on center to reverse to drill up and click on one part side to drill down.

Output:

Sum of Profit by Category, Sub-Category and Product Name
Hewlett Packard 310 Color Digital Copier 1.50%
Brother DCP1000 Digital 3 in 1 Multifunction Machine 2.05%
Canon PC-428 Personal Copier 2.62%
Sharp 1540cs Digital Laser Copier 2.94%
Canon Image Class D660 Copier 3.02%
Sharp AL-1530CS Digital Copier 3.68%
Canon PC940 Copier 3.73%
Canon PC1080F Personal Copier 4.37%
Canon Imageclass D680 Copier / Fax 4.99%
Hewlett Packard 610 Color Digital Copier / Printer 5.57%
Canon PC1060 Personal Laser Copier 8.15%
Hewlett Packard LaserJet 3310 Copier 12.45%
Canon ImageCLASS 2200 Advanced Copier 44.92%

4. Creating Word Cloud:

- Visualizations > Build Visual > WordCloud
- Visualizations > Build Visual > Category = “State / Province”
- Visualizations > Build Visual > Value = “Sum of Profits”

- Click on Name of state to view it values.

Output:

5. Creating Play Axis:

- Visualizations > Build Visual > Play Axis
- Visualizations > Build Visual > Field= “Order Date”

Output:

6. Creating Sun Burst:

- Visualizations > Build Visual > Sun Burst
- Visualizations > Build Visual > Groups= “Category, Sub Category”
- Visualizations > Build Visual > Values = “sum of sales”
- Drill down by selecting category name on the chart and drill up by click on it again.

Output:

6. Creating Scroller:

- Visualizations > Build Visual > Scroller
- Visualizations > Build Visual > Category= “City”
- Visualizations > Build Visual > Measure = “sum of sales”
- Visualizations > Build Visual > Category= “City”
- Visualizations > Build Visual > Measure = “Sum of profits”

Output:

7. Final Report output:

Sum of Profit by City

4	San Francisco	17507.385399999992	Detroit

Sum of Sales by City

.74200000001	San Francisco	112669.092	Philadel

Experiment Number: 05

Aim:

Create Reports Using set Interactions between Visuals, Hierarchies and Drilldown, Drill through into Power BI.

Procedure:

1. Importing the Dataset:

- Launch Power BI Desktop.
- Click on "Get Data" in the Home tab of the ribbon.
- Select the appropriate data source option "Excel" and follow the prompts to import your sample dataset into Power BI.

2. Insert Rectangle Shape:

- Click on “Format tab” on right side and perform changes on visual.
- Shape > Style > #E66C37
- Shape > Text >Text = “Sales report” , Font Size = 46, Horizontal Alignment = “Center”.

Output:

Sales report

3. Create a Slicer:

- Visualizations > Build Visual > Slicer
- Visualizations > Build Visual > Field = “Location”
- Visualizations >Format Visuals> Title> Font Size =14
- Visualizations >Format Visuals> Effects> Background Color = #9B0065
- Visualizations >Format Visuals> Effects> Height= 79
- Visualizations >Format Visuals> Effects> Width = 582

Output:

4. Add Card with Current Date:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Right-click anywhere in the "Fields" pane and select "New Measure" from the contextmenu. This will open the formula bar at the top.
- In the formula bar, enter the following DAX formula to create a measure that calculatesthe current date**:**
  - **CurrentDate = Now()**
- Press Enter to apply the formula.
- Visualization >Format Visual > General > Effects > Background Color : #F18F49
- Visualization > Format Visual >Visual > Category Label > Font Size = 12

Output:

5. Create Stacked Bar Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”Category Name Hierarchy”
- Visualizations >Build Visuals >Fields > X-Axis =”Sum of Selling Price”
- Visualizations >Format Visuals> Y-axis> Values >Color = #5F6B6D
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Color = #5F6B6D
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #374649
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Bar> Accessories> Color = #374649
- Visualizations >Format Visuals> Bar>Formal>color = #D2B04C
- Visualizations >Format Visuals> Bar> SemiFormal> Color = #00ACFC
- Visualizations >Format Visuals> Bar> Casual Wear> Color = #C83D95
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 18
- Visualizations >Format Visuals> Title> Text =”Sum of selling Price By Category Name”
- Visualizations >Format Visuals> Title> Font Size =24
- Visualizations >Format Visuals> Effects> Background Color = #F1792

Output:

6. Create Stacked Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”selling price”
- Visualizations >Build Visuals >Fields > X-Axis =”Month”
- Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5F6B6D

- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”total selling price by month”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #5C2D91

Output:

7. Create a Card to display Selling Price:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Right-click anywhere in the "Fields" pane and select "New Measure" from the contextmenu. This will open the formula bar at the top.
- In the formula bar, enter the following DAX formula to create a measure that calculatesthe total selling price**:**
  - total selling price = SUMX(Data,Data[Selling price]*Data[Item quantity])
- Drag “Total Selling Price” to “Fields”.
- Visualization >Format Visual > General > Effects > Background Color : #5B2D71
- Visualization > Format Visual >Visual > Category Label > Font Size = 20

Output:

8. Create a Card to display Total Item Count:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Right-click anywhere in the "Fields" pane and select "New Measure" from the

contextmenu. This will open the formula bar at the top.

- Drag “Total Item Count” to “Fields”.
- In the formula bar, enter the following formula to create a measure that calculates the total item count**:**
  - **total item count = countx(data,Data[Item quantity])**
- Visualization >Format Visual > General > Effects > Background Color : #AF916D
- Visualization > Format Visual >Visual > Category Label > Font Size = 20

Output:

9. Create a Card to display Profit:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Right-click anywhere in the "Fields" pane and select "New Measure" from the contextmenu. This will open the formula bar at the top.
- Drag “profit” to “Fields”.
- In the formula bar, enter the following formula to create a measure that calculates the profit**:**
  - **profit = Data[total selling price]-[total cost price]**
- Visualization >Format Visual > General > Effects > Background Color :#5C0001
- Visualization > Format Visual >Visual > Category Label > Font Size = 20

Output:

10. Create a Card to display Profit %:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Right-click anywhere in the "Fields" pane and select "New Measure" from the contextmenu. This will open the formula bar at the top.
- Drag “profit %” to “Fields”.
- In the formula bar, enter the following formula to create a measure that calculates the profit%:
  - **%Profit = (Data[profit]/Data[total cost price])*100**
- Visualization >Format Visual > General > Effects > Background Color : #F8BCBD

- Visualization > Format Visual >Visual > Category Label > Font Size = 20

Output:

11. Create Stacked Bar Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”Category Name”
- Visualizations >Build Visuals >Fields > X-Axis =”Profit”
- Visualizations >Format Visuals> Y-axis> Values >Color = #5F6B6D
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Color = #5F6B6D
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #374649
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Bar> Accessories> Color = # F18F49
- Visualizations >Format Visuals> Bar>Formal>color = # F18F49
- Visualizations >Format Visuals> Bar> SemiFormal> Color = # F18F49
- Visualizations >Format Visuals> Bar> Casual Wear> Color = # F18F49
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 18
- Visualizations >Format Visuals> Title> Text =”Profit By Category Name”
- Visualizations >Format Visuals> Title> Font Size =18
- Visualizations >Format Visuals> Effects> Background Color = #008cEEE

Output:

12. Create Donut Chart:

- Visualizations >Build Visuals >Fields > Legend=”Location”
- Visualizations >Build Visuals >Fields > Values=”Sum of Item Count”
- Visualizations >Format Visuals> Legend> slices >Color =”374649”
- Visualizations >Format Visuals> Values >Color = #5F6B6D
- Visualizations >Format Visuals> Legend> slices>Chennai >Color = #1DD5EE
- Visualizations >Format Visuals> Legend> slices>Banglore >Color = #5C2D91
- Visualizations >Format Visuals> Legend> slices >Hyderabad>Color = #F18F49
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”Sum of Item amount by Location”
- Visualizations >Format Visuals> Title> Font Size =18
- Visualizations >Format Visuals> Effects> Background Color = #EF008C

Output:

13. Create Pie-Chart:

- Visualizations >Build Visuals >Fields > Legend=”Ordertype Name”
- Visualizations >Build Visuals >Fields > Values=”Sum of Item quantity”
- Visualizations >Format Visuals> Legend> slices >Color = #374649
- Visualizations >Format Visuals> Values >Color = #374649
- Visualizations >Format Visuals> Legend> slices>on line>Color = #FE6D86
- Visualizations >Format Visuals> Legend> slices>On Shop >Color = #F18F49
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center

- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”Sum of Item quantiy by ordertype name”
- Visualizations >Format Visuals> Title> Font Size =16
- Visualizations >Format Visuals> Effects> Background Color = #FFD86C

Output:

14. Create a Filter to clear Button:

- Insert > Shapes > Select “Rectangle Shape”
- Visualizations > Format > Shape > Text > “ON” > Text = “Clear”
- Visualizations > Format > Shape > Action > “ON”
- Now make all visuals to initial state the follow next step
- View > BookMark > Add BookMark =”Clear”
- Visualizations > Format > Shape > Action > Select = “BookMark”
- Visualizations > Format> Shape > Action > BookMark =”Clear”

Output:

15. Creating Hierarchy for drill down and drill up operations:

- Data > Category Name > Create hierarchy
- Data > Item Name > Add to hierarchy

- Place cursor on visual > Click " ↓ " to drill down
- Place cursor on visual > Click " ⇓ " to drill next level of hierarachy

Output:

Initial:

After Drill Down:

Drill through:

- To set up drillthrough, create a target report page that has the visuals you want for the type of entity that you're going to provide drillthrough for.
- Then, on that drillthrough target page, in the **Build visual** section of the Visualizations pane, drag the **field** for which you want to enable drillthrough into the Drill through well.

- Add drill-through field = “CategoryName”

Output:

ceipt no	Category name	Item name	Location	Ordertype name	Sum of Cost Price	Sum of Item amount	Year	Quarter	Month	Day	Sum of Selling price	Sum c
BL100	Casual Wear	Jeans - Denim	Bangalore	On Shop	1400	1800	2019	Qtr 1	January	9	1800	0
BL100	Casual Wear	Jeans - Denim	Bangalore	On Shop	700	900	2019	Qtr 1	March	9	900	0
BL100	Casual Wear	Jeans - Denim	Bangalore	On Shop	1400	1800	2019	Qtr 2	April	9	1800	0
BL100	Casual Wear	Jeans - Denim	Bangalore	On Shop	700	900	2019	Qtr 2	May	9	900	0
BL100	Casual Wear	Jeans - Denim	Bangalore	On Shop	1400	1800	2019	Qtr 2	June	9	1800	0
BL100	Casual Wear	Jeans - Denim	Bangalore	On Shop	700	900	2019	Qtr 3	July	9	900	0
BL100	Casual Wear	Jeans - Denim	Bangalore	On Shop	700	900	2019	Qtr 4	October	9	900	0
BL100	Casual Wear	Jeans - Denim	Bangalore	On Shop	700	900	2019	Qtr 4	November	9	900	0
BL100	Casual Wear	Jeans - Denim	Bangalore	On Shop	1400	1800	2019	Qtr 4	December	9	1800	0
BL100	Casual Wear	Jeans - Denim	Bangalore	On Shop	700	900	2020	Qtr 1	January	9	900	0
BL100	Casual Wear	Jeans - Denim	Chennai	On Shop	700	900	2019	Qtr 1	February	9	900	0
BL100	Casual Wear	Jeans - Denim	Chennai	On Shop	700	900	2019	Qtr 1	March	9	900	0
BL100	Casual Wear	Jeans - Denim	Chennai	On Shop	700	900	2019	Qtr 3	August	9	900	0
BL100	Casual Wear	Jeans - Denim	Chennai	On Shop	700	900	2019	Qtr 4	October	9	900	0
BL100	Casual Wear	Jeans - Denim	Chennai	On Shop	700	900	2020	Qtr 1	January	9	900	0
BL100	Casual Wear	Jeans - Denim	Chennai	On Shop	700	900	2020	Qtr 1	February	9	900	0
BL100	Casual Wear	Jeans - Denim	Hyderabad	On Shop	700	900	2019	Qtr 1	February	9	900	0
BL100	Casual Wear	Jeans - Denim	Hyderabad	On Shop	700	900	2019	Qtr 2	May	9	900	0
BL100	Casual Wear	Jeans - Denim	Hyderabad	On Shop	700	900	2019	Qtr 3	July	9	900	0
BL100	Casual Wear	Jeans - Denim	Hyderabad	On Shop	700	900	2019	Qtr 3	August	9	900	0
BL100	Casual Wear	Jeans - Denim	Hyderabad	On Shop	1400	1800	2019	Qtr 3	September	9	1800	0
BL100	Casual Wear	Jeans - Denim	Hyderabad	On Shop	700	900	2019	Qtr 4	November	9	900	0
BL100	Casual Wear	Jeans - Denim	Hyderabad	On Shop	700	900	2020	Qtr 1	February	9	900	0
BL100	Casual Wear	Jeans - Denim	Hyderabad	On Shop	1400	1800	2020	Qtr 1	March	9	1800	0
BL101	Casual Wear	Jeans - Levis	Bangalore	On Shop	900	1100	2019	Qtr 3	September	10	1100	0
BL101	Casual Wear	Jeans - Levis	Bangalore	On Shop	900	1100	2019	Qtr 4	December	10	1100	0
BL101	Casual Wear	Jeans - Levis	Bangalore	On Shop	900	1100	2020	Qtr 1	February	10	1100	0
BL101	Casual Wear	Jeans - Levis	Bangalore	On Shop	900	1100	2020	Qtr 1	March	10	1100	0
BL101	Casual Wear	Jeans - Levis	Chennai	On Shop	900	1100	2019	Qtr 1	March	10	1100	0
BL101	Casual Wear	Jeans - Levis	Chennai	On Shop	900	1100	2019	Qtr 2	April	10	1100	0
BL101	Casual Wear	Jeans - Levis	Chennai	On Shop	900	1100	2019	Qtr 2	May	10	1100	0
BL101	Casual Wear	Jeans - Levis	Chennai	On Shop	900	1100	2019	Qtr 3	July	10	1100	0
Total					1974300	2626500					2468300	0

16. Final Visual Format:

- Visualizations >Page Information > Name =”Page1”
- Visualizations >canvas Background > color=”D8D7BF ”
- Visualizations > Wall Paper > color = “#FFFFFF”

Output:

Bangalore
Chennai
Hyderabad
02-08-2023 17:44:32
Selling price
1415K
Item
1573
Profit
327K
%Profit
30.07
Clear
Sum of Selling price by Category name
Casual Wear
0.8M
Semi Formal
0.3M
Formal
Accessories
Category name
0M
1M
2M
Sum of Selling price
total selling price by Month
1.0M
0.5M
0.0M
total selling price
0.40M
January
February
March
April
May
June
July
August
September
October
November
December
Month
profit by Category name
Casual Wear
0.18M
Semi Formal
0.09M
Accessories
Formal
Category name
0.0M
0.2M
0.4M
0.6M
profit
Sum of Item amount by Location
1323K (31.86%)
1416K (34.09%)
1415K (34.06%)
Location
Chennai
Bangalore
Hyderabad
Sum of Item quantity by Ordertype name
0K (2.48%)
2K (31.83%)
Ordertype na...
On Shop
Online Or...

Experiment Number: 06

Aim:

Create Reports using Aggregation functions calculate a value such as count, sum, average, minimum or maximum for all rows in a column or table as defined by the expression.

Procedure:

1. Importing the Dataset:

- Launch Power BI Desktop.
- Click on "Get Data" in the Home tab of the ribbon.
- Select the appropriate data source option "Excel" and follow the prompts to import yoursample dataset into Power BI.

2. Insert Rectangle Shape:

- Click on "Format tab" on right side and perform changes on visual.
- Shape > Style > #E66C37
- Shape > Text >Text = "Sales report" , Font Size = 46, Horizontal Alignment = "Center".

3. Add card for Displaying Sum Values of Profit and sales :

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Right-click anywhere in the "Fields" pane and select "New Measure" from the contextmenu. This will open the formula bar at the top.

In the formula bar, enter the following DAX formula to create a measure that calculatesthe total profit and sales.

```
TotalProfit = CALCULATE(SUM(ORDERS[PROFIT]))
TotalSales = CALCULATE(sum(Orders[Sales]))
```

- Press Enter to apply the formula.
- Visualization >Format Visual > General > Effects > Background Color : #E6E6E6
- Visualization > Format Visual >Visual > Category Label > Font Size = 12

Output:

Similarly, calculate the individual years total profit by using the below formulas:

- `2020Profit = CALCULATE(SUM(ORDERS[PROFIT]),year(Orders[Order Date])=2020)`
- `2020Profit = CALCULATE(SUM(ORDERS[PROFIT]),year(Orders[Order Date])=2020)`
- `2020Profit = CALCULATE(SUM(ORDERS[PROFIT]),year(Orders[Order Date])=2020)`
- `2020Profit = CALCULATE(SUM(ORDERS[PROFIT]),year(Orders[Order Date])=2020)`

Similarly, calculate the individual years total sales by using the below formulas:

- `2020sales = calculate(sum(Orders[Sales]),year(Orders[Order Date])=2020)`
- `2020sales = calculate(sum(Orders[Sales]),year(Orders[Order Date])=2020)`
- `2020sales = calculate(sum(Orders[Sales]),year(Orders[Order Date])=2020)`
- `2020sales = calculate(sum(Orders[Sales]),year(Orders[Order Date])=2020)`

OUTPUT:

4. Add card for Displaying Average Values of Profit and sales :

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Right-click anywhere in the "Fields" pane and select "New Measure" from the contextmenu. This will open the formula bar at the top.
- In the formula bar, enter the following DAX formula to create a measure that calculatesthe avearge profit and sales

```
avgprofit = CALCULATE(AVERAGE(Orders[profit]))
avgsales = CALCULATE(AVERAGE(Orders[Sales]))
```

- Press Enter to apply the formula.
- Visualization >Format Visual > General > Effects > Background Color : #B6E6E6
- Visualization > Format Visual >Visual > Category Label > Font Size = 12

Output:

Similarly, calculate the individual years average profit by using the below formulas:

- 2020avgProfit = CALCULATE(AVERAGE(ORDERS[PROFIT]),year(Orders[Order Date])=2020)
- 2021avgProfit = CALCULATE(AVERAGE(ORDERS[PROFIT]),year(Orders[Order Date])=2021)
- 2022avgProfit = CALCULATE(AVERAGE(ORDERS[PROFIT]),year(Orders[Order Date])=2022)
- 2023avgProfit = CALCULATE(AVERAGE(ORDERS[PROFIT]),year(Orders[Order Date])=2023)

Similarly, calculate the individual years average sales by using the below formulas:

- 2020avgsales = CALCULATE(AVERAGE(Orders[Sales]),year(Orders[Order Date])=2020)
- 2021avgsales = CALCULATE(AVERAGE(Orders[Sales]),year(Orders[Order Date])=2021)
- 2022avgsales = CALCULATE(AVERAGE(Orders[Sales]),year(Orders[Order Date])=2022)
- 2023avgsales = CALCULATE(AVERAGE(Orders[Sales]),year(Orders[Order Date])=2023)

OUTPUT:

5. Add card for Displaying count of items and orders:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Right-click anywhere in the "Fields" pane and select "New Measure" from the contextmenu. This will open the formula bar at the top.
- In the formula bar, enter the following DAX formula to create a measure that calculatesthe no of items and orders

```
totalItems = CALCULATE(sum(orders[quantity]))
TotalOrders = CALCULATE(COUNT(Orders[Order ID]))
```

Press Enter to apply the formula.

- Visualization >Format Visual > General > Effects > Background Color : #E6F2g6
- Visualization > Format Visual >Visual > Category Label > Font Size = 12

Similarly, calculate the individual years orders by using the below formulas:

- `2020OrderCount = CALCULATE(count(Orders[Order ID]),year(Orders[Order Date])=2020)`
- `2021OrderCount = CALCULATE(count(Orders[Order ID]),year(Orders[Order Date])=2021)`
- `2022OrderCount = CALCULATE(count(Orders[Order ID]),year(Orders[Order Date])=2022)`
- `2023OrderCount = CALCULATE(count(Orders[Order ID]),year(Orders[Order Date])=2023)`

Output:

Similarly, calculate the individual year items by using the below formulas:

- `2020items = calculate(sum(Orders[Quantity]),year(Orders[Order Date])=2020)`
- `2021items = calculate(sum(Orders[Quantity]),year(Orders[Order Date])=2021)`
- `2022items = calculate(sum(Orders[Quantity]),year(Orders[Order Date])=2022)`
- `2023items = calculate(sum(Orders[Quantity]),year(Orders[Order Date])=2023)`

Output:

7. Add card for Displaying max and min no of orders:

- With the card visualization selected, locate the "Fields" pane on the right-hand side.
- Right-click anywhere in the "Fields" pane and select "New Measure" from the contextmenu. This will open the formula bar at the top.
- In the formula bar, enter the following DAX formula to create a measure that calculatesthe max and min no of orders

```
maxCount = CALCULATE(MAX(Orders[Order ID]))
minCount = CALCULATE(MIN(Orders[Order ID]))
```

Press Enter to apply the formula.

- Visualization >Format Visual > General > Effects > Background Color : #E6F2g6
- Visualization > Format Visual >Visual > Category Label > Font Size = 14

OUTPUT:

Similarly, calculate the individual year max orders by using the below formulas

- 2020maxCount = CALCULATE(max(Orders[Order ID]),year(Orders[Order Date])=2020)
- 2021maxCount = CALCULATE(max(Orders[Order ID]),year(Orders[Order Date])=2021)
- 2022maxCount = CALCULATE(max(Orders[Order ID]),year(Orders[Order Date])=2022)
- 2023maxCount = CALCULATE(max(Orders[Order ID]),year(Orders[Order Date])=2023)

OUTPUT:

Similarly, calculate the individual year min orders by using the below formulas:

- 2020minCount = CALCULATE(min(Orders[Order ID]),year(Orders[Order Date])=2020)
- 2021minCount = CALCULATE(min(Orders[Order ID]),year(Orders[Order Date])=2021)
- 2022minCount = CALCULATE(min(Orders[Order ID]),year(Orders[Order Date])=2022)
- 2023minCount = CALCULATE(min(Orders[Order ID]),year(Orders[Order Date])=2023)

OUTPUT:

8. Final Visual Format for profit page:

- Visualizations > Page Information > Name =”Profit”
- Visualizations > Canvas Background > color = #12239E
- Visualizations > WallPaper > Color = #A0D1FF

9.Final Visual Format for sales page:

- Visualizations > Page Information > Name =”Sales”
- Visualizations > Canvas Background > color = #12239E
- Visualizations > WallPaper > Color = #A0D1F

Output:

292.30K
TotalProfit
51.68K
2020Profit
62.02K
2021Profit
82.67K
2022Profit
95.93K
2023Profit
28.67
25.20
2020avgProfit
29.12
31.38
2022avgProfit
28.39
2023avgProfit
10K
TotalOrders
2051
2020OrderCount
2130
2021OrderCount
2634
2022orderCount
3379
2023OrderCount
US-2023...
maxCount
US-2020...
US-202...
2021maxCount
US-2022...
2022maxCount
US-2023...
2023maxCount
CA-2020-
CA-202...
2020minCount
CA-20...
2021minCount
CA-2022...
2022minCount
CA-2022...
2022minCount
Profit
Sales
Page 1 of 2

2.33M
494.04K
2020sales
472.99K
2021sales
613.93K
2022sales
745.57K
39K
totalItems
7813
8086
2021items
10K
2022items
13K
2023items
228.23
avgsales
240.88
2020avgsales
222.06
233.08
2022avgsales
220.65
2023avgsales
Filters
Profit
Sales

Experiment Number: 07

Aim:

Create reports using caluculations based on dates and times.

Procedure:

1. Importing the Dataset:

- Launch Power BI Desktop.
- Click on "Get Data" in the Home tab of the ribbon.
- Select the appropriate data source option "Excel" and follow the prompts to import your sample dataset into Power BI.

2. Insert Rectangle Shape:

- Click on "Format tab" on right side and perform changes on visual.
- Shape > Style > #E66C37
- Shape > Text >Text = "Dates and Time" , Font Size = 46, Horizontal Alignment = "Center"

3. Create Stacked Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit”
- Visualizations >Build Visuals >Fields > X-Axis =”day”
- For day data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
Day = DAY(Orders[Order Date].[Date])
```

- Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit by day”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #5C2D91

4. Create Stacked Column Chart:

Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit”

- Visualizations >Build Visuals >Fields > X-Axis =”month”
- For month data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
Month = MONTH(Orders[Order Date].[Date])
```

Visualizations >Format Visuals> Y-axis> Values >Color = #374649

- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D

- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit by month”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #e6b999

5. Create Stacked Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit”
- Visualizations >Build Visuals >Fields > X-Axis =”month name”
- For monthname data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
MonthName = Orders[Order Date].[Month]
```

  Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit by month name”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #ebf89f

6. Create Stacked Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit”
- Visualizations >Build Visuals >Fields > X-Axis =”quarter”
- For quarer data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
Quarter = QUARTER(Orders[Order Date].[Date])
```

- Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit by quarter”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #e8d166

7. Create Stacked Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit”
- Visualizations >Build Visuals >Fields > X-Axis =”quarter name”
- For quartername data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
QuarterName = Orders[Order Date].[Quarter]
```

- Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit by quarter name”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #6b0010

8. Create Stacked Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit”
- Visualizations >Build Visuals >Fields > X-Axis =”week number”
- For weeknum data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
WeekNum = WEEKNUM(Orders[Order Date].[Date])
```

- Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit by week num”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #EO0047

9. Create Stacked Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit”
- Visualizations >Build Visuals >Fields > X-Axis =”week day”
- For weekday data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
WeekDay = WEEKDAY(Orders[Order Date].[Date])
```

- Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit by week day”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #ebf567

10. Create Stacked Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit”
- Visualizations >Build Visuals >Fields > X-Axis =”day of week name”
- For weekname data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
Day of weekName = FORMAT(Orders[Order Date],"dddd")
```

- Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit by day of week name”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #a0A078

11. Create Stacked Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit”
- Visualizations >Build Visuals >Fields > X-Axis =”year”
- For year data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:
-

```
year = YEAR(Orders[Order Date].[Date])
```

- Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit by year”

- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #a0A078

12. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>previousYear Profit
- Orders->NewColumn->and enter the below dax formula:

```
previousDayProfit = CALCULATE(SUM(Orders[Profit]),PREVIOUSDAY(Orders[Order Date].[Date]))
```

Year	Quarter	Month	Day	Sum of Profit	previousDayProfit
2020	Qtr 1	January	3	5.55	
2020	Qtr 1	January	4	-65.99	5.55
2020	Qtr 1	January	5	4.88	-65.99
2020	Qtr 1	January	6	1,358.05	4.88
2020	Qtr 1	January	7	-71.96	1,358.05
2020	Qtr 1	January	8		-71.96
2020	Qtr 1	January	9	10.92	
2020	Qtr 1	January	10	22.65	10.92
2020	Qtr 1	January	11	3.08	22.65
2020	Qtr 1	January	12		3.08
2020	Qtr 1	January	13	673.64	
2020	Qtr 1	January	14	-53.29	673.64
2020	Qtr 1	January	15	65.98	-53.29
2020	Qtr 1	January	16	-5.93	65.98
2020	Qtr 1	January	17		-5.93
2020	Qtr 1	January	18	6.49	
2020	Qtr 1	January	19	-288.00	6.49
2020	Qtr 1	January	20	584.37	-288.00
Total				**2,92,296.81**	

13. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>previousMonthProfit
- Orders->NewColumn->and enter the below dax formula:

```
previousMonthProfit = CALCULATE(SUM(Orders[Profit]),PREVIOUSMONTH(Orders[Order Date].[Date]))
```

Year	Quarter	Month	Sum of Profit	previousMonthProfit
2020	Qtr 1	January	2,539.39	
2020	Qtr 1	February	862.31	2,539.39
2020	Qtr 1	March	693.45	862.31
2020	Qtr 2	April	3,488.84	693.45
2020	Qtr 2	May	3,196.39	3,488.84
2020	Qtr 2	June	4,999.76	3,196.39
Total			**2,92,296.81**	

14. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>previousqtrProfit
- Orders->NewColumn->and enter the below dax formula:

```
previousqtrProfit = CALCULATE(SUM(Orders[Profit]),PREVIOUSQUARTER(Orders[Order
Date].[Date]))
```

Year	Quarter	previousqtrProfit	Sum of Profit
2020	Qtr 1		4,095.15
2020	Qtr 2	4,095.15	11,684.99
2020	Qtr 3	11,684.99	13,517.37
2020	Qtr 4	13,517.37	22,386.79
2021	Qtr 1	22,386.79	9,554.66
2021	Qtr 2	9,554.66	12,200.19
2021	Qtr 3	12,200.19	16,880.30
2021	Qtr 4	16,880.30	23,385.82
2022	Qtr 1	23,385.82	11,628.49
2022	Qtr 2	11,628.49	16,594.68
2022	Qtr 3	16,594.68	16,247.49
2022	Qtr 4	16,247.49	38,194.55
2023	Qtr 1	38,194.55	23,858.60
2023	Qtr 2	23,858.60	15,503.91
2023	Qtr 3	15,503.91	27,545.38
2023	Qtr 4	27,545.38	29,018.46
Total			**2,92,296.81**

15. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>previousyearprofit
- Orders->NewColumn->and enter the below dax formula:

```
previousyearProfit = CALCULATE(SUM(Orders[Profit]),PREVIOUSYEAR(Orders[Order Date].[Date]))
```

Year	Sum of Profit	previousyearProfit
2020	51,684.30	
2021	62,020.97	51,684.30
2022	82,665.20	62,020.97
2023	95,926.35	82,665.20
Total	**2,92,296.81**	

16. Create Clustered Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit,previousyearprofit”
- Visualizations >Build Visuals >Fields > X-Axis =”order date”

- For previousyearprofit data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
previousyearProfit = CALCULATE(SUM(Orders[Profit]),PREVIOUSYEAR(Orders[Order Date].[Date]))
```

- Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All

- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit and previousprofit by year”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #E044A7

17. Create Clustered Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit,previousqtrprofit”
- Visualizations >Build Visuals >Fields > X-Axis =”order date”
- For previousqtrprofit data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
previousqtrProfit = CALCULATE(SUM(Orders[Profit]),PREVIOUSQUARTER(Orders[Order
                                    Date].[Date]))
```

  - Visualizations >Format Visuals> Y-axis> Values >Color = #374649
- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit and previousqtrprofit by quarter”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = #fc67e9

18. Create Clustered Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit,nextqtrprofit”
- Visualizations >Build Visuals >Fields > X-Axis =”order date”
- For nextqtrprofit data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
nextquarterProfit = CALCULATE(SUM(Orders[Profit]),NEXTQUARTER(Orders[Order Date].[Date]))
```

Visualizations >Format Visuals> Y-axis> Values >Color = #374649

- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit and nextqtrprofit by year”
- Visualizations >Format Visuals> Title> Font Size =20

  Visualizations >Format Visuals> Effects> Background Color = #e1c233

19. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>nextmonthprofit
- Visualizations >Columns>orderDate>profit>nextquarterprofit
- Visualizations >Columns>orderDate>profit>nextyearprofit
- Orders->NewColumn->and enter the below dax formula:

```
nextmonthProfit = CALCULATE(SUM(Orders[Profit]),NEXTMONTH(Orders[Order Date].[Date]))
nextquarterProfit = CALCULATE(SUM(Orders[Profit]),NEXTQUARTER(Orders[Order Date].[Date]))
nextyearProfit = CALCULATE(SUM(Orders[Profit]),NEXTYEAR(Orders[Order Date].[Date])
```

Year	Quarter	Month	Sum of Profit	nextmonthProfit
2020	Qtr 4	November	9,382.96	9,554.66
2020	Qtr 4	December	9,554.66	-3,189.80
2021	Qtr 1	January	-3,189.80	2,813.85
2021	Qtr 1	February	2,813.85	9,930.61
2021	Qtr 1	March	9,930.61	4,187.50
2021	Qtr 2	April	4,187.50	4,677.14
2021	Qtr 2	May	4,677.14	3,335.56
2021	Qtr 2	June	3,335.56	3,288.65
2021	Qtr 3	July	3,288.65	5,371.63
2021	Qtr 3	August	5,371.63	8,220.03
2021	Qtr 3	September	8,220.03	2,817.97
Total			2,92,296.81	

Year	Quarter	Sum of Profit	nextquarterProfit
2020	Qtr 1	4,095.15	11,684.99
2020	Qtr 2	11,684.99	13,517.37
2020	Qtr 3	13,517.37	22,386.79
2020	Qtr 4	22,386.79	9,554.66
2021	Qtr 1	9,554.66	12,200.19
2021	Qtr 2	12,200.19	16,880.30
2021	Qtr 3	16,880.30	23,385.82
2021	Qtr 4	23,385.82	11,628.49
2022	Qtr 1	11,628.49	16,594.68
2022	Qtr 2	16,594.68	16,247.49
2022	Qtr 3	16,247.49	38,194.55
2022	Qtr 4	38,194.55	23,858.60
Total		2,92,296.81	

Year	Sum of Profit	nextyearProfit
2020	51,684.30	62,020.97
2021	62,020.97	82,665.20
2022	82,665.20	95,926.35
2023	95,926.35	
Total	**2,92,296.81**	

20. Create Clustered Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit,nextyearprofit”
- Visualizations >Build Visuals >Fields > X-Axis =”order date”
- For nextqtrprofit data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
nextyearProfit = CALCULATE(SUM(Orders[Profit]),NEXTYEAR(Orders[Order Date].[Date]))
```

Visualizations >Format Visuals> Y-axis> Values >Color = #374649

- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit and nextyearprofit by year,quarter,month and day”
- Visualizations >Format Visuals> Title> Font Size =20

  Visualizations >Format Visuals> Effects> Background Color = #f5ac4af

21. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>`3daysaheadprofit`
- Visualizations >Columns>orderDate>profit>`3daysbackprofit`
- Orders->NewColumn->and enter the below dax formula:

```
3daysaheadprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],3,DAY))
3DaysBackprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],-3,DAY))
```

Year	Quarter	Month	Day	Sum of Profit	3daysaheadprofit	3DaysBackprofit
2020	Qtr 1	January	1		-181.41	
2020	Qtr 1	January	2		-207.05	
2020	Qtr 1	January	3	5.55	704.28	
2020	Qtr 1	January	4	-65.99		
2020	Qtr 1	January	5	4.88		
2020	Qtr 1	January	6	1,358.05	15.52	5.55
2020	Qtr 1	January	7	-71.96	758.72	-65.99
2020	Qtr 1	January	8		80.37	4.88
2020	Qtr 1	January	9	10.92	-228.74	1,358.05
2020	Qtr 1	January	10	22.65		-71.96
2020	Qtr 1	January	11	3.08		
2020	Qtr 1	January	12		-1,101.52	10.92
Total				**2,92,296.81**	**95,926.35**	**2,91,485.89**

22. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>`3monthsaheadprofit`
- Visualizations >Columns>orderDate>profit>`3monthsbackprofit`
- Orders->NewColumn->and enter the below dax formula:

```
3monthsaheadprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order
Date].[Date],3,MONTH))
3monthsBackprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],-
3,MONTH))
```

Year	Quarter	Month	3monthsaheadprofit	3monthsBackprofit	Sum of Profit
2020	Qtr 1	January	7,231.64		2,539.39
2020	Qtr 1	February	1,613.87		862.31
2020	Qtr 1	March	15,013.09		693.45
2020	Qtr 2	April	957.53	2,539.39	3,488.84
2020	Qtr 2	May	6,299.81	862.31	3,196.39
2020	Qtr 2	June	8,246.57	693.45	4,999.76
2020	Qtr 3	July	7,006.50	3,488.84	-841.48
2020	Qtr 3	August	9,488.07	3,196.39	5,765.23
2020	Qtr 3	September	11,050.80	4,999.76	8,593.63
2020	Qtr 4	October	10,670.53	-841.48	3,469.17
2020	Qtr 4	November	9,692.10	5,765.23	9,362.96
2020	Qtr 4	December	8,655.83	8,593.63	9,554.66
2021	Qtr 1	January		3,469.17	-3,189.80
2021	Qtr 1	February		9,362.96	2,813.85
2021	Qtr 1	March		9,554.66	9,930.61
2021	Qtr 2	April		-3,189.80	4,187.50
2021	Qtr 2	May		2,813.85	4,677.14
Total			**95,926.35**	**2,63,278.35**	**2,92,296.81**

23. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>`3quarteraheadprofit`
- Visualizations >Columns>orderDate>profit>`3quarterbackprofit`

- Orders->NewColumn->and enter the below dax formula:

```
3quartersaheadprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],3,QUARTER))
3quartersBackprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],-3,QUARTER))
```

Year	Quarter	Sum of Profit	3quarterBackprofit	3quartersaheadprofit
2022	Qtr 1	11,628.49	12,200.19	
2021	Qtr 1	9,554.66	11,684.99	
2022	Qtr 4	38,194.55	11,628.49	
2021	Qtr 4	23,385.82	9,554.66	
2020	Qtr 4	22,386.79	4,095.15	29,018.46
2020	Qtr 1	4,095.15		23,858.60
2020	Qtr 2	11,684.99		15,503.91
2020	Qtr 3	13,517.37		27,545.38
Total		**2,92,296.81**	**2,20,229.07**	**95,926.35**

24. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>`3yearsaheadprofit`
- Visualizations >Columns>orderDate>profit>`3yearsbackprofit`
- Orders->NewColumn->and enter the below dax formula:

```
3yearsaheadprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],3,year))
3yearsBackprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],-3,year))
```

Year	Sum of Profit	3yearsaheadprofit	3yearsBackprofit
2020	51,684.30	95,926.35	
2021	62,020.97		
2022	82,665.20		
2023	95,926.35		51,684.30
Total	**2,92,296.81**	**95,926.35**	**51,684.30**

25. Create Clustered Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit,3yearsbackprofit,3yearsaheadprofit”
- Visualizations >Build Visuals >Fields > X-Axis =”order date”
- For `3yearsaheadprofit`, `3yearsBackprofit` data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
3yearsaheadprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],3,year))
3yearsBackprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],-3,year))
```

Visualizations >Format Visuals> Y-axis> Values >Color = #374649

- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All

- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit ,3yearsaheadprofit and 3yearsbackprofit by year.
- Visualizations >Format Visuals> Title> Font Size =20

  Visualizations >Format Visuals> Effects> Background Color = #f0af87

26. Create Clustered Column Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit,3quartersbackprofit,3quarteraheadprofit”
- Visualizations >Build Visuals >Fields > X-Axis =”order date”
- For `3yearsaheadprofit` , `3yearsBackprofit` data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
3quartersaheadprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],3,QUARTER))
3quartersBackprofit = CALCULATE(sum(Orders[Profit]),DATEADD(Orders[Order Date].[Date],-3,QUARTER))
```

Visualizations >Format Visuals> Y-axis> Values >Color = #374649

- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit ,3yearsaheadprofit and 3yearsbackprofit by year.
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = # E044A7

Z

27. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>`sameperiodlastyearprofit`
- Orders->NewColumn->and enter the below dax formula:

```
sameperiodlastyearprofit = CALCULATE(SUM(Orders[Profit]),SAMEPERIODLASTYEAR(Orders[Order
Date].[Date]))
```

Year	Sum of Profit	sameperiodlastyearprofit
2020	51,684.30	
2021	62,020.97	51684
2022	82,665.20	62021
2023	95,926.35	82665
Total	**2,92,296.81**	**196370**

28. Create Line Chart:

- Visualizations >Build Visuals >Fields > Y –Axis =”sum of profit,”
- Visualizations >Build Visuals >Fields >Seconadray- Y –Axis =sameperiodlastyear”
- Visualizations >Build Visuals >Fields > X-Axis =”order date”
- For sameperiodlastyear data field create a new column measure
- Orders->NewColumn->and enter the below dax formula:

```
sameperiodlastyearprofit = CALCULATE(SUM(Orders[Profit]),SAMEPERIODLASTYEAR(Orders[Order
Date].[Date]))
```

Visualizations >Format Visuals> Y-axis> Values >Color = #374649

- Visualizations >Format Visuals> Y-axis> Values >Title >Color = #5
- Visualizations >Format Visuals> X-axis> Values >Color = #374649
- Visualizations >Format Visuals> X-axis> Values >Title >Color = #5F6B6D
- Visualizations >Format Visuals> Bar> Show All
- Visualizations >Format Visuals> Data Labels > Options> Inside Center
- Visualizations >Format Visuals> Data Labels> Values > Font Size = 14
- Visualizations >Format Visuals> Title> Text =”sum of profit and sameperiodlastyearprofit by year and month”
- Visualizations >Format Visuals> Title> Font Size =20
- Visualizations >Format Visuals> Effects> Background Color = # Ef567w

Final Output:

Year	Quarter	Month	Day	Sum of Profit	previousDayProfit
2020	Qtr 1	January	3	5.55	
2020	Qtr 1	January	4	-65.99	5.55
2020	Qtr 1	January	5	4.88	-65.99
2020	Qtr 1	January	6	1,358.05	4.88
2020	Qtr 1	January	7	-71.96	1,358.05
Total				**2,92,296.81**	

Year	Quarter	Month	Sum of Profit	previousMonthProfit
2020	Qtr 1	January	2,539.39	
2020	Qtr 1	February	862.31	2,539.39
2020	Qtr 1	March	693.45	862.31
2020	Qtr 2	April	3,488.84	693.45
2020	Qtr 2	May	3,196.39	3,488.84
Total			**2,92,296.81**	

Year	Quarter	previousqtrProfit	Sum of Profit
2020	Qtr 1		4,095.15
2020	Qtr 2	4,095.15	11,684.99
2020	Qtr 3	11,684.99	13,517.37
2020	Qtr 4	13,517.37	22,386.79
2021	Qtr 1	22,386.79	9,554.66
2021	Qtr 2	9,554.66	12,200.19
2021	Qtr 3	12,200.19	16,880.30
2021	Qtr 4	16,880.30	23,385.82
2022	Qtr 1	23,385.82	11,628.49
2022	Qtr 2	11,628.49	16,594.68
2022	Qtr 3	16,594.68	16,247.49
2022	Qtr 4	16,247.49	38,194.55
2023	Qtr 1	38,194.55	23,858.60
2023	Qtr 2	23,858.60	15,503.91
2023	Qtr 3	15,503.91	27,545.38
2023	Qtr 4	27,545.38	29,018.46
Total			**2,92,296.81**

Year	Sum of Profit	previousyearProfit
2020	51,684.30	
2021	62,020.97	51,684.30
2022	82,665.20	62,020.97
2023	95,926.35	82,665.20
Total	**2,92,296.81**	

Year	Quarter	Month	Sum of Profit	next
2020	Qtr 1	January	2,539.39	
2020	Qtr 1	February	862.31	
2020	Qtr 1	March	693.45	
2020	Qtr 2	April	3,488.84	
2020	Qtr 2	May	3,196.39	
2020	Qtr 2	June	4,999.76	
2020	Qtr 3	July	-841.48	
2020	Qtr 3	August	5,765.23	
2020	Qtr 3	September	8,593.63	
2020	Qtr 4	October	3,469.17	
Total			2,92,296.81	

Year	Quarter	Month	Day	Sum of Profit	nextdayProfi
2020	Qtr 1	January	2		5.5
2020	Qtr 1	January	3	5.55	-65.9
2020	Qtr 1	January	4	-65.99	4.8
2020	Qtr 1	January	5	4.88	1,358.0
2020	Qtr 1	January	6	1,358.05	-71.9
2020	Qtr 1	January	7	-71.96	
2020	Qtr 1	January	8		10.9
2020	Qtr 1	January	9	10.92	22.6
2020	Qtr 1	January	10	22.65	3.0
2020	Qtr 1	January	11	3.08	
2020	Qtr 1	January	12		673.6
2020	Qtr 1	January	13	673.64	-53.2
2020	Qtr 1	January	14	-53.29	65.9
2020	Qtr 1	January	15	65.98	-5.9
Total				2,92,296.81	

Year	Quarter	Sum of Profit	nextquarterPro
2020	Qtr 1	4,095.15	11,684.
2020	Qtr 2	11,684.99	13,517.
2020	Qtr 3	13,517.37	22,386.
2020	Qtr 4	22,386.79	9,554.
2021	Qtr 1	9,554.66	12,200.
2021	Qtr 2	12,200.19	16,880.
2021	Qtr 3	16,880.30	23,385.
2021	Qtr 4	23,385.82	11,628.
2022	Qtr 1	11,628.49	16,594.
2022	Qtr 2	16,594.68	16,247.
2022	Qtr 3	16,247.49	38,194.
Total		2,92,296.81	

Year	Sum of Profit	nextyearProfit
2020	51,684.30	62,020.97
2021	62,020.97	82,665.20
Total	2,92,296.81	

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Year	Quarter	Month	Day	Sum of Profit	3daysahead
2020	Qtr 1	January	1		-1
2020	Qtr 1	January	2		-2
2020	Qtr 1	January	3	5.55	7
2020	Qtr 1	January	4	-65.99	
2020	Qtr 1	January	5	4.88	
2020	Qtr 1	January	6	1,358.05	
2020	Qtr 1	January	7	-71.96	7
2020	Qtr 1	January	8		
2020	Qtr 1	January	9	10.92	-2
2020	Qtr 1	January	10	22.65	
Total				2,92,296.81	95,92

Year	Quarter	Month	3monthsaheadprofit	3months
2020	Qtr 1	January	7,231.64	
2020	Qtr 1	February	1,613.87	
2020	Qtr 1	March	15,013.09	
2020	Qtr 2	April	957.53	
2020	Qtr 2	May	6,299.81	
2020	Qtr 2	June	8,246.57	
2020	Qtr 3	July	7,006.50	
2020	Qtr 3	August	9,488.07	
2020	Qtr 3	September	11,050.80	
2020	Qtr 4	October	10,670.53	
2020	Qtr 4	November	9,692.10	
2020	Qtr 4	December	8,655.83	
2021	Qtr 1	January		
2021	Qtr 1	February		
2021	Qtr 1	March		
2021	Qtr 2	April		
2021	Qtr 2	May		
Total			95,926.35	2,6

Year	Sum of Profit	3yearsaheadprofit	3yearsBackprofit
2020	51,684.30	95,926.35	
2021	62,020.97		
2022	82,665.20		
2023	95,926.35		51,684.30
Total	2,92,296.81	95,926.35	51,684.30

Year	Quarter	Sum of Profit	3quarterBackprofit	3quarte
2023	Qtr 3	27,545.38	38,194.55	
2023	Qtr 4	29,018.46	23,858.60	
2022	Qtr 3	16,247.49	23,385.82	
2021	Qtr 3	16,880.30	22,386.79	
2022	Qtr 2	16,594.68	16,880.30	
2023	Qtr 1	23,858.60	16,594.68	
2023	Qtr 2	15,503.91	16,247.49	
2021	Qtr 2	12,200.19	13,517.37	
Total		2,92,296.81	2,20,229.07	

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Year	Sum of Profit	sameperiodlastyearprofit
2020	51,684.30	
2021	62,020.97	51684
2022	82,665.20	62021
2023	95,926.35	82665
Total	2,92,296.81	196370

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Experiment Number: 08

Aim:

Create reports using MTD,YTD,QTD In power-bi?

Procedure:

1. Importing the Dataset:

- Launch Power BI Desktop.
- Click on "Get Data" in the Home tab of the ribbon.
- Select the appropriate data source option "Excel" and follow the prompts to import yoursample dataset into Power BI.

2. Insert Rectangle Shape:

- Click on "Format tab" on right side and perform changes on visual.
- Shape > Style > #E66C37
- Shape > Text >Text = "Page1" , Font Size = 46, Horizontal Alignment = "Center".

3. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>Quantity>mtd item quantity
- Click on new measure>and enter the below dax formula:

```
Mtd item qty = TOTALMTD(SUM(Orders[Quantity]),Orders[Order Date].[Date])
```

Year	Quarter	Month	Day	Sum of Quantity	Mtd item qty
2020	Qtr 1	January	25		255
2020	Qtr 1	January	26	38	291
2020	Qtr 1	January	27	8	299
2020	Qtr 1	January	28	1	300
2020	Qtr 1	January	29		300
2020	Qtr 1	January	30	4	304
2020	Qtr 1	January	31	2	306
2020	Qtr 1	February	1	6	6
2020	Qtr 1	February	2	12	18
2020	Qtr 1	February	3	5	23
2020	Qtr 1	February	4	9	32
2020	Qtr 1	February	5		32
2020	Qtr 1	February	6	12	44
Total				**38654**	**1820**

4. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>Quantity>qtd item quantity
- Click on new measure>and enter the below dax formula:

```
qtd item qty = TOTALQTD(SUM(Orders[Quantity]),Orders[Order Date].[Date])
```

Year	Quarter	Month	Sum of Quantity	qtd item qty
	Qtr 2	April	536	536
	Qtr 2	May	504	1040
	Qtr 2	June	524	1564
	Qtr 3	July	550	550
	Qtr 3	August	624	1174
	Qtr 3	September	1015	2189
	Qtr 4	October	605	605
	Qtr 4	November	1235	1840
	Qtr 4	December	1158	2998
	Qtr 1	January	260	260
	Qtr 1	February	239	499
	Qtr 1	March	528	1027
	Qtr 2	April	543	543
Total			**38654**	**4828**

5. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>Quantity>ytd item quantity
- Click on new measure>and enter the below dax formula:

```
Ytd item qty = TOTALYTD(SUM(Orders[Quantity]),Orders[Order Date].[Date])
```

Year	Quarter	Sum of Quantity	year item qty
2020	Qtr 1	1062	1062
2020	Qtr 2	1564	2626
2020	Qtr 3	2189	4815
2020	Qtr 4	2998	7813
2021	Qtr 1	1027	1027
2021	Qtr 2	1624	2651
2021	Qtr 3	2250	4901
2021	Qtr 4	3185	8086
2022	Qtr 1	1280	1280
2022	Qtr 2	2283	3563
2022	Qtr 3	2803	6366
2022	Qtr 4	3652	10018
2023	Qtr 1	1898	1898
Total		**38654**	**12737**

6. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>Total Mtd Orders
- Visualizations >Columns>orderDate>Total qtd Orders
- Visualizations >Columns>orderDate>Total ytd Orders
- Click on new measure>and enter the below dax formula:

```
Total Mtd Orders = TOTALMTD(Count(Orders[Order ID]),Orders[Order Date].[date])
Total Qtd Orders = TOTALQTD(Count(Orders[Order ID]),Orders[Order Date].[date])
Total Ytd Orders = TOTALYTD(Count(Orders[Order ID]),Orders[Order Date].[date])
```

Year	Quarter	Month	Total Mtd Orders	Total qtd Orders	Total Ytd Orders
2020	Qtr 1	January	84	84	84
2020	Qtr 1	February	46	130	130
2020	Qtr 1	March	159	289	289
2020	Qtr 2	April	135	135	424
2020	Qtr 2	May	132	267	556
2020	Qtr 2	June	136	403	692
2020	Qtr 3	July	143	143	835
2020	Qtr 3	August	158	301	993
2020	Qtr 3	September	273	574	1266
2020	Qtr 4	October	168	168	1434
2020	Qtr 4	November	320	488	1754
2020	Qtr 4	December	297	785	2051
2021	Qtr 1	January	64	64	64
2021	Qtr 1	February	64	128	128
2021	Qtr 1	March	141	269	269
Total			**482**	**1251**	**3379**

7. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>mtdProfit
- Click on new measure>and enter the below dax formula:

```
MTDprofit = CALCULATE(sum(Orders[Profit]),DATESMTD(Orders[Order Date].[Date]))
```

Year	Quarter	Month	Day	Sum of Profit	MTDprofit
2020	Qtr 1	January	27	9.68	2,523.00
2020	Qtr 1	January	28	1.33	2,524.32
2020	Qtr 1	January	29		2,524.32
2020	Qtr 1	January	30	11.65	2,535.97
2020	Qtr 1	January	31	3.42	2,539.39
2020	Qtr 1	February	1	206.32	206.32
2020	Qtr 1	February	2	7.15	213.47
2020	Qtr 1	February	3	31.56	245.03
2020	Qtr 1	February	4	51.14	296.17
2020	Qtr 1	February	5		296.17
2020	Qtr 1	February	6	76.48	372.66
2020	Qtr 1	February	7	59.35	432.01
2020	Qtr 1	February	8	5.53	437.54
2020	Qtr 1	February	9		437.54
2020	Qtr 1	February	10		437.54
Total				**2,92,296.81**	**8,655.83**

8. Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>qtdProfit
- Click on new measure>and enter the below dax formula:

```
QTDprofit = CALCULATE(sum(Orders[Profit]),DATESQTD(Orders[Order Date].[Date]))
```

Year	Quarter	Month	Sum of Profit	QTDprofit
2021	Qtr 1	January	-3,189.80	-3,189.80
2021	Qtr 1	February	2,813.85	-375.95
2021	Qtr 1	March	9,930.61	9,554.66
2021	Qtr 2	April	4,187.50	4,187.50
2021	Qtr 2	May	4,677.14	8,864.63
2021	Qtr 2	June	3,335.56	12,200.19
2021	Qtr 3	July	3,288.65	3,288.65
2021	Qtr 3	August	5,371.63	8,660.28
2021	Qtr 3	September	8,220.03	16,880.30
2021	Qtr 4	October	2,817.97	2,817.97
2021	Qtr 4	November	12,474.79	15,292.75
2021	Qtr 4	December	8,093.06	23,385.82
2022	Qtr 1	January	2,916.02	2,916.02
2022	Qtr 1	February	5,004.58	7,920.60
2022	Qtr 1	March	3,707.89	11,628.49
Total			**2,92,296.81**	**29,018.46**

9..Create table:

- Home > Enter data > Create table by giving values to the columns
- Visualizations >Columns>orderDate>profit>ytdProfit
- Click on new measure>and enter the below dax formula:

```
YTDprofit = CALCULATE(sum(Orders[Profit]),DATESYTD(Orders[Order Date].[Date]))
```

Year	Quarter	Sum of Profit	YTDprofit
2020	Qtr 1	4,095.15	4,095.15
2020	Qtr 2	11,684.99	11,684.99
2020	Qtr 3	13,517.37	13,517.37
2020	Qtr 4	22,386.79	22,386.79
2021	Qtr 1	9,554.66	9,554.66
2021	Qtr 2	12,200.19	12,200.19
2021	Qtr 3	16,880.30	16,880.30
2021	Qtr 4	23,385.82	23,385.82
2022	Qtr 1	11,628.49	11,628.49
2022	Qtr 2	16,594.68	16,594.68
2022	Qtr 3	16,247.49	16,247.49
2022	Qtr 4	38,194.55	38,194.55
2023	Qtr 1	23,858.60	23,858.60
2023	Qtr 2	15,503.91	15,503.91
2023	Qtr 3	27,545.38	27,545.38
Total		**2,92,296.81**	**29,018.46**

Final Output:

Year	Quarter	Month	Day	Sum of Quantity	Mtd item qty
2020	Qtr 1	January	27	8	299
2020	Qtr 1	January	28	1	300
2020	Qtr 1	January	29		300
2020	Qtr 1	January	30	4	304
2020	Qtr 1	January	31	2	306
2020	Qtr 1	February	1	6	6
2020	Qtr 1	February	2	12	18
2020	Qtr 1	February	3	5	23
2020	Qtr 1	February	4	9	32
2020	Qtr 1	February	5		32
2020	Qtr 1	February	6	12	44
2020	Qtr 1	February	7	11	55
Total				**38654**	**1820**

Year	Quarter	Month	Sum of Quantity	qtd item qt
	Qtr 1	January	306	30
	Qtr 1	February	159	46
	Qtr 1	March	597	106
	Qtr 2	April	536	53
	Qtr 2	May	504	104
	Qtr 2	June	524	156
	Qtr 3	July	550	55
	Qtr 3	August	624	117
	Qtr 3	September	1015	218
	Qtr 4	October	605	60
	Qtr 4	November	1235	184
	Qtr 4	December	1158	299
Total			**38654**	**482**

/ear	Quarter	Month	Total Mtd Orders	Total qtd Orders	Total Ytd Orders
2020	Qtr 3	August	158	301	993
2020	Qtr 3	September	273	574	1266
2020	Qtr 4	October	168	168	1434
2020	Qtr 4	November	320	488	1754
2020	Qtr 4	December	297	785	2051
2021	Qtr 1	January	64	64	64
2021	Qtr 1	February	64	128	128
2021	Qtr 1	March	141	269	269
2021	Qtr 2	April	160	160	429
2021	Qtr 2	May	150	310	579
2021	Qtr 2	June	138	448	717
2021	Qtr 3	July	140	140	857
Total			**482**	**1251**	**3379**

Year	Quarter	Sum of Quantity	year item qty
2020	Qtr 1	1062	1062
2020	Qtr 2	1564	2626
2020	Qtr 3	2189	4815
2020	Qtr 4	2998	7813
2021	Qtr 1	1027	1027
2021	Qtr 2	1624	2651
2021	Qtr 3	2250	4901
2021	Qtr 4	3185	8086
2022	Qtr 1	1280	1280
2022	Qtr 2	2283	3563
2022	Qtr 3	2803	6366
2022	Qtr 4	3652	10018
2023	Qtr 1	1898	1898
2023	Qtr 2	2571	4469
Total		**38654**	**12737**

Quarter	Month	Day	Sum of Profit	MTDprofit
Qtr 1	January	18	6.49	1,954.07
Qtr 1	January	19	-288.00	1,666.07
Qtr 1	January	20	584.37	2,250.44
Qtr 1	January	21	93.30	2,343.75
Qtr 1	January	22		2,343.75
Qtr 1	January	23	19.24	2,362.99
Qtr 1	January	24		2,362.99
Qtr 1	January	25		2,362.99
Qtr 1	January	26	150.33	2,513.31
Qtr 1	January	27	9.68	2,523.00
Qtr 1	January	28	1.33	2,524.32
Qtr 1	January	29		2,524.32
Qtr 1	January	30	11.65	2,535.97
Qtr 1	January	31	3.42	2,539.39
Qtr 1	February	1	206.32	206.32
			2,92,296.81	**8,655.83**

Year	Quarter	Month	Sum of Profit	QTDprofit
2020	Qtr 1	January	2,539.39	2,539.39
2020	Qtr 1	February	862.31	3,401.70
2020	Qtr 1	March	693.45	4,095.15
2020	Qtr 2	April	3,488.84	3,488.84
2020	Qtr 2	May	3,196.39	6,685.23
2020	Qtr 2	June	4,999.76	11,684.99
2020	Qtr 3	July	-841.48	-841.48
2020	Qtr 3	August	5,765.23	4,923.74
2020	Qtr 3	September	8,593.63	13,517.37
2020	Qtr 4	October	3,469.17	3,469.17
2020	Qtr 4	November	9,362.96	12,832.13
2020	Qtr 4	December	9,554.66	22,386.79
2021	Qtr 1	January	-3,189.80	-3,189.80
2021	Qtr 1	February	2,813.85	-375.95
2021	Qtr 1	March	9,930.61	9,554.66
Total			**2,92,296.81**	**29,018.46**

Year	Quarter	Sum of Profit	YTDprofit
2020	Qtr 1	4,095.15	4,095.15
2020	Qtr 2	11,684.99	11,684.99
2020	Qtr 3	13,517.37	13,517.37
2020	Qtr 4	22,386.79	22,386.79
2021	Qtr 1	9,554.66	9,554.66
2021	Qtr 2	12,200.19	12,200.19
2021	Qtr 3	16,880.30	16,880.30
2021	Qtr 4	23,385.82	23,385.82
2022	Qtr 1	11,628.49	11,628.49
2022	Qtr 2	16,594.68	16,594.68
2022	Qtr 3	16,247.49	16,247.49
2022	Qtr 4	38,194.55	38,194.55
2023	Qtr 1	23,858.60	23,858.60
2023	Qtr 2	15,503.91	15,503.91
2023	Qtr 3	27,545.38	27,545.38
Total		**2,92,296.81**	**29,018.46**

Page 1

My Dell

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Experiment Number: 09

Aim: Create Reports using Filter Functions in DAX

1.Importing the Dataset:

- Launch Power BI Desktop.
- Click on "Get Data" in the Home tab of the ribbon.
- Select the appropriate data source option "Excel" and follow the prompts to import yoursample dataset into Power BI.
- Select sample-super store data,xsl
- Select orders table from the check-boxws.

2.Insert Rectangle Shape:

- Click on "Format tab" on right side and perform changes on visual.
- Shape > Style > #E66C37
- Shape > Text >Text = "Page1" , Font Size = 46, Horizontal Alignment = "Center".

3.Create Table:

- Create table and place it in the report
- In the fields column drag and drop category

Category
Furniture
Office Supplies
Technology
Total

4.Create Table for calculating profits:

- Home > Enter data > Create table by giving values to the columns
- Click on new measure>and enter the below dax formula:

```
Total Profit = SUM(Orders[profit])
```

- Visualizations >Columns>Total profit

Category	Total Profit
Furniture	19,730.00
Office Supplies	1,26,023.44
Technology	1,46,543.38
Total	**2,92,296.81**

5.Applying ALL-Filter:

Syntax: ALL(<table>|<column>].<column>[,…]]]])

Description: returns all the rows in a table or all the values in the column, ignoring any filters that have been applied. This function is useful for clearing filters and creating calculations or all the rows in a table

- Home > Enter data > Create table by giving values to the columns
- Click on new measure>and enter the below dax formula:

```
All profit filter = CALCULATE([Total Profit],ALL(orders))
```

Category	Total Profit	All profit filter
Furniture	19,730.00	2,92,296.81
Office Supplies	1,26,023.44	2,92,296.81
Technology	1,46,543.38	2,92,296.81
Total	**2,92,296.81**	**2,92,296.81**

6.Applying ALLAccept:

Syntax: ALLACCEPT(<table>|<column>].<column>[,…]]]])
Description: returns all the rows in a table or all the values in the column, ignoring any filters that have been applied except the given coulmn. This function is useful for clearing filters and creating calculations or all the rows in a table except given column.

- Home > Enter data > Create table by giving values to the columns
- Click on new measure>and enter the below dax formula:

```
All profit Except Cat = CALCULATE([Total Profit],ALLEXCEPT(Orders,Orders[Category]))
```

  - Visualizations >Columns>All profit Except cat

Category	Total Profit	All profit filter	All profit Except Cat
Furniture	19,730.00	2,92,296.81	19,730.00
Office Supplies	1,26,023.44	2,92,296.81	1,26,023.44
Technology	1,46,543.38	2,92,296.81	1,46,543.38
Total	**2,92,296.81**	**2,92,296.81**	**2,92,296.81**

7.calculating % of profit for each category:

- Home > Enter data > Create table by giving values to the columns
- Click on new measure>and enter the below dax formula:

```
%profit Cat = DIVIDE([Total Profit],[All profit filter])
```

  - Visualizations >Columns>%profit cat
  - Change the mode to %

Category	Total Profit	All profit filter	All profit Except Cat	%profit Cat
Furniture	19,730.00	2,92,296.81	19,730.00	6.75%
Office Supplies	1,26,023.44	2,92,296.81	1,26,023.44	43.11%
Technology	1,46,543.38	2,92,296.81	1,46,543.38	50.14%
Total	**2,92,296.81**	**2,92,296.81**	**2,92,296.81**	**100.00%**

-

8.Applying filter to a particular Column:

- Home > Enter data > Create table by giving values to the columns
- Click on new measure>and enter the below dax formula:

```
technology profit = CALCULATE([total profit],Orders[category]="Technology"]
```

  - Visualizations >Columns>technology profit

Category	Total Profit	All profit filter	All profit Except Cat	%profit Cat	technology profit
Furniture	19,730.00	2,92,296.81	19,730.00	6.75%	1,46,543.38
Office Supplies	1,26,023.44	2,92,296.81	1,26,023.44	43.11%	1,46,543.38
Technology	1,46,543.38	2,92,296.81	1,46,543.38	50.14%	1,46,543.38
Total	**2,92,296.81**	**2,92,296.81**	**2,92,296.81**	**100.00%**	**1,46,543.38**

9. Applying Keep-Filter:

Syntax: KEEPFILTERS(<Expression>)

Description: Modifies how filters are applied for evaluating.

- Home > Enter data > Create table by giving values to the columns
- Click on new measure>and enter the below dax formula:

```
(KP)Technology profit = calculate([Total Profit],keepfilters(orders[category]="Technology"))
```

- Visualizations >Columns>(KP)Technology Profit

Category	Total Profit	All profit filter	All profit Except Cat	%profit Cat	technology profit	(KP)Technology profit
Furniture	19,730.00	2,92,296.81	19,730.00	6.75%	1,46,543.38	
Office Supplies	1,26,023.44	2,92,296.81	1,26,023.44	43.11%	1,46,543.38	
Technology	1,46,543.38	2,92,296.81	1,46,543.38	50.14%	1,46,543.38	1,46,543.38
Total	**2,92,296.81**	**2,92,296.81**	**2,92,296.81**	**100.00%**	**1,46,543.38**	**1,46,543.38**

10. Applying REMOVE-Filter:

Syntax: RemoveFilter(.<column>[,…]]]])

Description: same as all filter but not returns all the rows in a table or all the values in the column, ignoring any filters that have been applied. Majorly used for reducing complexity and increasing performance. This function is useful for clearing filters and creating calculations or all the rows in a table

- Home > Enter data > Create table by giving values to the columns
- Click on new measure>and enter the below dax formula:

All Profit RF filter = calculate([total profit],REMOVEFILTERS(Orders[category]))

- Visualizations >Columns>All profit RF filter

Category	Total Profit	All profit filter	All profit Except Cat	%profit Cat	technology profit	(KP)Technology profit	All Profit RF filter
Furniture	19,730.00	2,92,296.81	19,730.00	6.75%	1,46,543.38		2,92,296.81
Office Supplies	1,26,023.44	2,92,296.81	1,26,023.44	43.11%	1,46,543.38		2,92,296.81
Technology	1,46,543.38	2,92,296.81	1,46,543.38	50.14%	1,46,543.38	1,46,543.38	2,92,296.81
Total	**2,92,296.81**	**2,92,296.81**	**2,92,296.81**	**100.00%**	**1,46,543.38**	**1,46,543.38**	**2,92,296.81**

11. Creating a slicer for comparision:

- Home>visulazation>build visual>select slicer
- Chose religion in the fields
- From setting change the slicer settings>
- Choose style as tile

comparison:

if region=central

Category	Total Profit	All profit filter	All profit Except Cat	%profit Cat	technology profit	(KP)Technology profit	All Profit RF filter
Furniture	-2,802.21	2,92,296.81	19,730.00	-0.96%	33,697.43		39,865.31
Office Supplies	8,970.08	2,92,296.81	1,26,023.44	3.07%	33,697.43		39,865.31
Technology	33,697.43	2,92,296.81	1,46,543.38	11.53%	33,697.43	33,697.43	39,865.31
Total	**39,865.31**	**2,92,296.81**	**2,92,296.81**	**13.64%**	**33,697.43**	**33,697.43**	**39,865.31**

if region=south:

Category	Total Profit	All profit filter	All profit Except Cat	%profit Cat	technology profit	(KP)Technology profit	All Profit RF filter
Furniture	6,771.21	2,92,296.81	19,730.00	2.32%	19,991.83		46,749.43
Office Supplies	19,986.39	2,92,296.81	1,26,023.44	6.84%	19,991.83		46,749.43
Technology	19,991.83	2,92,296.81	1,46,543.38	6.84%	19,991.83	19,991.83	46,749.43
Total	**46,749.43**	**2,92,296.81**	**2,92,296.81**	**15.99%**	**19,991.83**	**19,991.83**	**46,749.43**

if region=East:

Category	Total Profit	All profit filter	All profit Except Cat	%profit Cat	technology profit	(KP)Technology profit	All Profit RF filter
Furniture	12,316.25	2,92,296.81	19,730.00	4.21%	44,412.34		1,10,798.82
Office Supplies	54,070.23	2,92,296.81	1,26,023.44	18.50%	44,412.34		1,10,798.82
Technology	44,412.34	2,92,296.81	1,46,543.38	15.19%	44,412.34	44,412.34	1,10,798.82
Total	**1,10,798.82**	**2,92,296.81**	**2,92,296.81**	**37.91%**	**44,412.34**	**44,412.34**	**1,10,798.82**

if region=West:

Category	Total Profit	All profit filter	All profit Except Cat	%profit Cat	technology profit	(KP)Technology profit	All Profit RF filter
Furniture	3,444.74	2,92,296.81	19,730.00	1.18%	48,441.78		94,883.26
Office Supplies	42,996.74	2,92,296.81	1,26,023.44	14.71%	48,441.78		94,883.26
Technology	48,441.78	2,92,296.81	1,46,543.38	16.57%	48,441.78	48,441.78	94,883.26
Total	**94,883.26**	**2,92,296.81**	**2,92,296.81**	**32.46%**	**48,441.78**	**48,441.78**	**94,883.26**

12. Create Table:

- Home > Enter data > Create table by giving values to the columns
- Click on new measure>and enter the below dax formula:
- `Profit rank = RANKX(ALL(Orders[region]),[total profit],,desc`
- Visualizations >Columns>religion>profit>profit rank

Region	Sum of Profit	Profit rank
West	1,10,798.82	1
East	94,883.26	2
South	46,749.43	3
Central	39,865.31	4
Total	**2,92,296.81**	**1**

13. Output:

Category	Total Profit	All profit filter	All profit Except Cat	%profit Cat	technology profit	(KP)Technology profit	All Profit RF filter
Furniture	19,730.00	2,92,296.81	19,730.00	6.75%	1,46,543.38		2,92,296.81
Office Supplies	1,26,023.44	2,92,296.81	1,26,023.44	43.11%	1,46,543.38		2,92,296.81
Technology	1,46,543.38	2,92,296.81	1,46,543.38	50.14%	1,46,543.38	1,46,543.38	2,92,296.81
Total	**2,92,296.81**	**2,92,296.81**	**2,92,296.81**	**100.00%**	**1,46,543.38**	**1,46,543.38**	**2,92,296.81**

Region	Sum of Profit	Profit rank
West	1,10,798.82	1
East	94,883.26	2
South	46,749.43	3
Central	39,865.31	4
Total	**2,92,296.81**	**1**

Experiment Number: 10

Aim:To publish the Power-BI project report and create a dashboard

Procedure:

2.Open the Report View:

- Open the Power-bi file that is needed to be published
- Open the report view of the document

3.Sign-in to your Microsoft Account:

- On the right side of the page click on the sign in-button
- A page appears as below.

- Enter the Email or the select the email in the drop down list shown.
- A page appears as follows:

- Enter the password and click on the sign-in button
- Now,your signed-in to your Microsoft account.

4.Publish your Report:

- Click on the publish icon on the right-side of the document.
- A page appears as follows:

- Click on the My workspace from the drop-down menu
- And follow by clicking on the select button.
- A page appears as follows.

- After successfully publishing the report a dialog-box appears as below:

5. View the Report:

- Open your browser
- Search for App.powerbi.com
- A page appears as below.

- Sign in to your Microsoft account.
- Click on the My Workspace icon that is viewed on the left-side of the page.

- The documents you have published can be viewed on this page

6.Pin To DashBoard:

- We,can also create dashboards for all the important data that is needed to view more oftenly.
- For Example there are 2 pages in the report we have published i.e.profit and sales.
- So if we need to view sales page often we can create a dashboard for it.
- Open the page and click on the three dots that are visible on the righ side of the page
- The page appears as below.

- Click on the pin to a dashboard option.
- Two options are shown as below:

- We can pin it to new dashboard or an existing dashboard.
- Give a suitable dashboard name
- After clicking on pin-live the pinned page will be shown as follows.

- Similarly publish all the power-bi files that have being done.

7.Final Report:

- After publishing all the documents,open the browser.
- Sign in to your account
- Click on My Workspaces.
- Along with the published documents the pinned reports will be shown on your dashboard.

8.Final Output:

The pinned pages will be appeared as below in the dashboard

Name	Type	Opened	Owner	Enc
Advanced Visulaizations	Dashboard		20BQ1A0508 - ANA...	—
Extracting Transformations	Dashboard		20BQ1A0508 - ANA...	—
profit	Dashboard		20BQ1A0508 - ANA...	—
sales report	Dashboard	a minute ago	20BQ1A0508 - ANA...	—
Sameperiodlastyear	Dashboard	2 minutes ago	20BQ1A0508 - ANA...	—
Sales	Dashboard	19 minutes ago	20BQ1A0508 - ANA...	—
MTD,QTD,YTD Formulas	Dashboard	3 days ago	20BQ1A0508 - ANA...	—

All the reports you have published will be shown in workspace as shown below:

Lab2
Search
File
Export
Share
Chat in Teams
Get insights
Edit
Home
Create
Browse
OneLake data hub
Apps
Workspaces
My workspace
Lab2
Filters
Sales report
10/10/2023 11:03:01 AM
Sum of Sales
2,326,534
Total Orders
5,111
Profit
292,297
Sales by Category
Technology
0.84M
Furniture
0.75M
Office Supplies
0.73M
Sales by Region
391.72K
739.81K
503.17K
691.83K
Region West East Central South
Sales by Year and Quarter
68%

lab3
Search
Pages
Page 1
Page 2
File
Export
Share
Chat in Teams
Get insights
Edit
Home
Workspaces
My workspace
lab5
lab5
lab4
lab3
Lab2
Filters
Bangalore
Chennai
Hyderabad
10/10/2023 11:09:55 AM
Selling price
4154K
Item
4585
Profit
953K
%Profit
29.78
Clear
Sum of Selling price by Category name
Casual Wear
2.5M
Semi Formal
0.8M
Formal
0.5M
Accessories
0.3M
Sum of Selling price
total selling price by Month
Month
profit by Category name
Casual Wear
0.53M
Semi Formal
0.24M
Accessories
0.10M
Formal
0.09M
Sum of Item amount by Location
1323K (31.86%)
1416K (34.09%)
1415K (34.06%)
Location
Chennai
Bangalore
Hyderabad
Sum of Item quantity by Ordertype name
0K (6.32%)
4K (93.68%)
Ordertype na...
On Shop
Online Or...
68%

lab4
Search
Pages
Page 1
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File
Export
Share
Chat in Teams
Get insights
Edit
Home
Workspaces
My workspace
lab4
lab5
lab5
lab4
lab3
Filters
Day
Day
Sum of Sales by Category
731.89K (31.46%)
839.89K (36.1%)
754.75K (32.44%)
Category
Technology
Furniture
Office Supplies
Sum of Sales by Category
Sum of Sales
0.8M
0.6M
0.4M
0.2M
0.0M
Technology
Furniture
Office Supplies
Category
68%

lab5
Search
Pages
Page 1
Page 2
File
Export
Share
Chat in Teams
Get insights
Edit
Bangalore
Chennai
Hyderabad
10/10/2023 11:11:46 ...
4153500
4585
3200300
953200
29.78
Clear
total selling price by Category name
total selling price by Day
total selling price by Ordertype name
profit by Category name
profit by Day
total selling price by Location
Filters
68%

lab6
Search
Pages
Profit
Sales
File
Export
Share
Chat in Teams
Get insights
Edit
292.30K
TotalProfit
51.68K
2020Profit
62.02K
2021Profit
82.67K
2022Profit
95.93K
2023Profit
28.67
25.20
2020avgProfit
29.12
31.38
2022avgProfit
28.39
2023avgProfit
10K
TotalOrders
2051
2020OrderCount
2130
2634
2022orderCount
3379
2023OrderCount
US-2023...
US-2020...
US-202...
US-2022...
US-2023...
2023maxCount
CA-2020-
CA-202...
2020minCount
CA-20...
CA-2022...
2022minCount
CA-2022...
Filters
68%

Year	Quarter	Month	Day	Sum of Profit	previousDayProfit
2020	Qtr 1	January	3	5.55	
2020	Qtr 1	January	4	-65.99	5.55
2020	Qtr 1	January	5	4.88	-65.99
2020	Qtr 1	January	6	1,358.05	4.88
2020	Qtr 1	January	7	-71.96	1,358.05
Total				292,296.81	

Year	Quarter	Month	Sum of Profit	previousMonthProfit
2020	Qtr 1	January	2,539.39	
2020	Qtr 1	February	862.31	2,539.39
2020	Qtr 1	March	693.45	862.31
2020	Qtr 2	April	3,488.84	693.45
2020	Qtr 2	May	3,196.39	3,488.84
Total			292,296.81	

Year	Quarter	Month	Day	Sum of Quantity	Mtd item qty
2020	Qtr 1	January	3	2	2
2020	Qtr 1	January	4	8	10
2020	Qtr 1	January	5	3	13
2020	Qtr 1	January	6	30	43
2020	Qtr 1	January	7	10	53
2020	Qtr 1	January	8		53
2020	Qtr 1	January	9	5	58
2020	Qtr 1	January	10	2	60
2020	Qtr 1	January	11	2	62
2020	Qtr 1	January	12		62
2020	Qtr 1	January	13	48	110
2020	Qtr 1	January	14	4	114
Total				38654	1820

Year	Quarter	Month	Sum of Quantity	qtd item qt
	Qtr 1	January	306	30
	Qtr 1	February	159	46
	Qtr 1	March	597	106
	Qtr 2	April	536	53
	Qtr 2	May	504	104
	Qtr 2	June	524	156
	Qtr 3	July	550	55
	Qtr 3	August	624	117
	Qtr 3	September	1015	218
	Qtr 4	October	605	60
	Qtr 4	November	1235	184
	Qtr 4	December	1158	299
Total			38654	482

Year	Quarter	Month	Total Mtd Orders	Total qtd Orders	Total Ytd Order
2020	Qtr 1	January	84	84	8
2020	Qtr 1	February	46	130	13
2020	Qtr 1	March	159	289	28
2020	Qtr 2	April	135	135	42
2020	Qtr 2	May	132	267	55
2020	Qtr 2	June	136	403	69
2020	Qtr 3	July	143	143	83
2020	Qtr 3	August	158	301	99
2020	Qtr 3	September	273	574	126
2020	Qtr 4	October	168	168	143
2020	Qtr 4	November	320	488	175
2020	Qtr 4	December	297	785	205
Total			482	1251	337

Year	Quarter	Sum of Quantity	year item qty
2020	Qtr 1	1062	1062
2020	Qtr 2	1564	2626
2020	Qtr 3	2189	4815
2020	Qtr 4	2998	7813
2021	Qtr 1	1027	1027
2021	Qtr 2	1624	2651
2021	Qtr 3	2250	4901
2021	Qtr 4	3185	8086
2022	Qtr 1	1280	1280
2022	Qtr 2	2283	3563
2022	Qtr 3	2803	6366
2022	Qtr 4	3652	10018
2023	Qtr 1	1898	1898
2023	Qtr 2	2571	4469
Total		38654	12737

Year	Quarter	Month	Day	Sum of Profit	MT
2020	Qtr 1	January	3	5.55	
2020	Qtr 1	January	4	-65.99	
2020	Qtr 1	January	5	4.88	
2020	Qtr 1	January	6	1,358.05	1,
2020	Qtr 1	January	7	-71.96	1,
2020	Qtr 1	January	8		1,
2020	Qtr 1	January	9	10.92	1,
2020	Qtr 1	January	10	22.65	1,
2020	Qtr 1	January	11	3.08	1,
2020	Qtr 1	January	12		1,
2020	Qtr 1	January	13	673.64	1,
2020	Qtr 1	January	14	-53.29	1,
2020	Qtr 1	January	15	65.98	1,
2020	Qtr 1	January	16	-5.93	1,
Total				292,296.81	8,

Year	Quarter	Month	Sum of Profit	QTDprofit
2020	Qtr 1	January	2,539.39	2,539.39
2020	Qtr 1	February	862.31	3,401.70
2020	Qtr 1	March	693.45	4,095.15
2020	Qtr 2	April	3,488.84	3,488.84
2020	Qtr 2	May	3,196.39	6,685.23
2020	Qtr 2	June	4,999.76	11,684.99
2020	Qtr 3	July	-841.48	-841.48
2020	Qtr 3	August	5,765.23	4,923.74
2020	Qtr 3	September	8,593.63	13,517.37
2020	Qtr 4	October	3,469.17	3,469.17
2020	Qtr 4	November	9,362.96	12,832.13
2020	Qtr 4	December	9,554.66	22,386.79
2021	Qtr 1	January	-3,189.80	-3,189.80
2021	Qtr 1	February	2,813.85	-375.95
2021	Qtr 1	March	9,930.61	9,554.66
Total			292,296.81	29,018.46

Year	Quarter	Sum of Profit	YTDprofit
2020	Qtr 1	4,095.15	4,095.15
2020	Qtr 2	11,684.99	11,684.99
2020	Qtr 3	13,517.37	13,517.37
2020	Qtr 4	22,386.79	22,386.79
2021	Qtr 1	9,554.66	9,554.66
2021	Qtr 2	12,200.19	12,200.19
2021	Qtr 3	16,880.30	16,880.30
2021	Qtr 4	23,385.82	23,385.82
2022	Qtr 1	11,628.49	11,628.49
2022	Qtr 2	16,594.68	16,594.68
2022	Qtr 3	16,247.49	16,247.49
2022	Qtr 4	38,194.55	38,194.55
2023	Qtr 1	23,858.60	23,858.60
2023	Qtr 2	15,503.91	15,503.91
2023	Qtr 3	27,545.38	27,545.38
Total		292,296.81	29,018.46