

DATA VISUALISATION QUESTIONS

1. What is Dax functions?

Dax - Data Analytical Expression

- > If you are pulling the data from PowerBI and using just the plain data No use.
- > Add some dax function to enhance the data
- > Like Compare the organization last year to this year, last week to this week.

2. What is RLS?

RLS - Row Level Security eg: whatsapp status

RLS is Nothing but Security and Strategies.

- > Restrict the data access from the certain users.

-> Two types of RLS

1. Static

2. Dynamic

Static (ONE)

- > Restrict the data same level of Information

-> Fix Scope eg: whatsapp status

Dynamic (MULTIPLE)

- > Assign one roles to multiple users.
- > Assign multiple roles to multiple users
- > Restrict the data visibility different level of Information.

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3. what is Implementation of RIS?

Modelling -> Manage roles -> [create roles] = New delhi

-> [Sales Data] -> click Add filter (Static)

-> Filter [location] -> Dax -> [location] = "New delhi"

[✓] Verify Dax Expression Save it.

View as -> New delhi

Two Location [Dynamic] Multiple

Two location -> manage roles -> create -> India

Dax = [location] = "New delhi" || [location] = "mumbai".
or

4). what is New column, New measure, New table?

New Column -> New Column is nothing but Static calculation.

-> Based on one or more existing Column calculated using formula.

New Measure -> Dynamic calculation of aggregate data from one or more Columns.

New Table

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57. What is Calculated Column, Calculated measure?

| Calculated Column | Calculated Measure |
|---|--|
| 1. Existing physically in the data model | 1). create on the fly Ash |
| 2. They occupy some space | 2). They doesn't occupy some space. |
| 3). Performance low due to the extra Column | 3. Performance was high due to the fly Ash. |
| 4). Filter Not Available | 4) Filter Available |
| 5). we can see the Value Physically | 5). we could not able to see the Value Physically so that we using KPI card or someother Visual. |

6). Different between Sum and Sumx?

| SUM | SUMX |
|--|-------------------------------------|
| 1. Sum is a Agregation function | 1. Sumx is a Iteraction function |
| 2. output will be the single Value | 2. |
| 3. Sum is a Column level Calculation. | 3. Sumx is a row level Calculation. |
| 4. It doesn't occupy Space | 4. It occupy some Space |
| 5. ^{General} If you are working in large amount of dataset wait for certain time. Because it involves some memory function. | |

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7. Difference b/w row context and filter context?

| Row Context | Filter Context |
|---|---|
| 1. Doesn't follow the any relationship (or) create a filter context | 1. Automatically follow the relationship from one to many relationship. |
| 2. provide by co-ordinates of the visual | 2. Exists the calculated column. |
| 3. Calculated function can be used to after a filter context. | 3. Calculated can convert row context to filter context. |
| | 4. First Filter work Second Calculation works. |

8. Difference All, All except, All Select?

All → It ignore the filter coming from other field.

All & → Not Supported direct Query mode. when used Calculated Column or RLS.

All Except → It Picks up the filter we selected and

All Select → ignore the one which have not selected.

→ But keeping all other explicit filter.

All Except → Except the columns gave ignore the function of other filter.

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9). what are the dax functions you have used?

1. Calculate → Context modify by the filter.
2. Sum, Avg, max, min, Count → Basic Aggregation Function
3. Filter → Apply the filter for a Column or Table
4. Related and Related Table → Navigate the Relation between two Tables.
5. All, All Select All Except

10). what is time Intelligence functions?

Manipulating the data using the time periods.

Like Days, Month, Quarter, Year

Total
1. TMD - Total Month to Date

2. TQD - Total Quarter to Date

3. TYD - Total Year to Date

} Multiple filter

} only one filter

Dates

1. DMD - Dates month to Date

2. DQD - Dates Quarter to Date

3. DYD - Dates Year to Date

} Multiple filter

* To find out the Running Total

* or ~~Are~~ Cumulative Total

11). Types of Filter

3 Types of filter

1. Visual Level 2. Page Level 3. All Page Level

1. Visual Level

→ It applicable only for Particular Visual

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2. Page Level

It applicable only for Certain Page

3 All Page Level

It applicable for all the Pages

12) Difference Bw Slicer and Sync Slicer?

| Slicer | Sync Slicer |
|--|---|
| 1. Regular Slicers typically working on Single Page or Single Visualization. | 1. The Sync Slicer operate across the multiple Pages maintaining the Synchronization between the Slicer on different Pages. |

Sync Slicer help to maintain the Consistent of Context filter. Difference parts of report.

→ why use

→ while using the Sync Slicers the Performance will be Very high.

13) Diff between filter and Slicer

| Filter | Slicer |
|---------------------------------------|--|
| 1. Both are filtering Purpose | 1. Both are filtering Purpose |
| 2. End user Could not see the filter. | 2. End user able to see the Slicer |
| 3. Three Types of filter | 3. Slicers is basically a Visual also filter out anything. |
| 1. Visual Level | 4. Mostly Slicer is used for Edit Interaction Purpose. |
| 2. Page Level | |
| 3. All Page Level | |

14). What is Bookmarks?

-> Bookmark is Nothing but want to Shift the Visual within the Page like Hide and Seek.

-> 2 important options are required for Bookmark.

1. Selection
2. Bookmark

15). What is Bookmark Action?

-> while creating or editing the bookmarks we can specify the action should be performed when the bookmark is supplied.

- * Linking to another Page
- * Show an Hide and Seek element
- * Changing the filter States
- * Creating the interactive dashboard

16). What is Custom Visual?

-> Visual Not the Part of PowerBI

-> 1. Download the Custom Visual in Microsoft Store.

Steps

1. click 3 dot in the Visual tab
2. Directly go to microsoft app store
3. we have to click the get it Now directly download Visual
4. Import and use the Visual.

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17). What are the types of chart is used in your Project

1. Column chart

-> Display data using Vertical

-> Suitable for Comparing the Categories

2. Bar chart

-> Display data in Horizontal

-> Effective for Comparing Values across Category, especially when Category names are long.

3. Line chart

-> Useful for Showing trends over the time.

-> Often used for time Series data.

4. Pie chart

-> Represent the data in circular graph divided into Slicers

-> Typically used for displaying part to whole relationship

5. ⁴⁷Donut chart

-> Similar to Piechart but there is a whole Hole in the Center.

6. Table

-> Present in the tabular format

-> Supporting to the drill-down.

7). Matrix

-> Grid format

-> Aggregate the drill down data in dynamically

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18). Performance tuning

1. Query optimization
2. Filter and Slicers
3. Query Folding
4. Dax Optimization

18. -> Using measures a

* Avoid Iteration function.

5. Disable auto date Hierarchies
6. Data types Sorting

19). Performance Analyzer

- > View -> Performance Analyzer
- > Start recording click

Button - 71 Milli Second

card - 81 MS

Bar chart - 102 MS

-> Performance Analyzer is used to calculate the Performance

-> Expand ~~But~~ option

* Dax Query How many Second

* Visual How many Second

* Others function

-> Ascending and Descending

-> Download Tason file

-> In case more time taken in dax we use

dax Studio

-> In Visual VertiPack Analyzer

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20. Conditional Formatting

→ Dynamically formatted appearance of Visual based on data value they represented.

1. Color Scale
2. Data Bars
3. Icon Set
4. Color by Field

21. How do you testing the reports in Power BI?

1. Reconciliation, Source vs Target
2. Functional Testing - check all the Slicer
3. Performance Testing
4. Performance Analyzer

22. Difference b/w Reports and Dashboard?

| Report | Dashboard |
|--|--|
| 1. Detail Interactive analysis across the multiple Pages | 1. Provide Consolidated View of Key metrics and Visuals on a Single Canvas, Offering a Quick Overview of the most critical Insights. |

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237. Limitation of Import Method

- > If Dataset we have import only 1GB
- > Real time data
 1. The Import method not suitable for real time data.
 2. If you need upto the data you will go for the some other mode like Direct or Live mode.
- > Refresh frequency
- > Data Transformation

244. What is Summarize, Summarize x?

1. It is working based on the selected interval in the filter context.
2. More than one filter.
3. Only works on month, quarter, year.

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25. What is iteration function?

→ The function iterates over the row by row of the table.

→ Calculate some of expressions

for ex: 1. Sumx is iteration function

2. Sumx is a row level calculation

3. Sumx occupy some space

26. What same period last year?

| Same Period | Parallel Period |
|--|---|
| 1. IS working based on Dynamic in the filter context | IS working on the static Interval Selected. |
| 2. only one goes one year | 2. More than one period 3, 4, 5 |
| | 3. only works on month, Quarter, year |

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Diff between Powerbi and Tableau?

| Power Bi | Tableau |
|---|--|
| 1. Measures, Dacs are used in Powerbi | 1. Mdx is used in Tableau |
| 2. Larger Number of Limited Number of data it will be Handled | 2. Larger Number of data it will be Handled. |
| 3. Powerbi is Suitable for Beginners and Experts. | 3. Tableau Suitable for the experts. |

4.

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