Q1) Explain DAX.

Ans) DAX (Data Analysis Expressions) is a formula language that is used to perform basic calculations and data analysis on the data in Power Pivot and used to compute calculated columns, calculated fields, and measures.

we can create new measures, use them for creating exclusive visualizations, and have unique insights into data.

DAX functions comprises of three elements:

1)Syntax

2)Context

3)Functions

Mostly used DAX functions are mentioned below :

1)Date Functions: DATE, HOUR, WEEKDAY, NOW, EOMONTH

2)Counting Functions: DISTINCT COUNT, COUNT, COUNTA, COUNTROWS, COUNTBLANK

3)Aggregate Functions: MIN, MAX, AVERAGE, SUM, SUMX

4)TEXT Functions: REPLACE, SEARCH, UPPER, FIXED, CONCATENATE

5)Logical Functions: AND, OR, NOT, IF, IFERROR

Q2) Explain datasets, reports, and dashboards and how they relate to each other?

Ans) Explained below :

1) Power BI Dataset :

It is the data source that is used to create reports and visuals. At first dataset can have structured or unstructured data, we have to clean it with power query

2) Report

Whenever we analyze data and come to final results we store it as a report which comprises of one or more pages of reports.

3) Dashboard

Dashboard is interactive to demonstrate the data insights and analysis in a simpler format. It is a collection of visuals taken from various reports.

Q3 ) How reports can be created in power BI, explain two ways with Navigation of each.

Ans) We can make reports in Power BI through two different ways.

1. Power BI Desktop :

Steps required:

1. Open Power BI desktop
2. Let the window to load all the features in Power BI
3. Select the data source by using get data tab from the Home ribbon
4. Load the data, transform using Power Query if we need to keep only required columns and values
5. Choose the visualisation type and drag values in the fields to demonstrate data.
6. Customize the views and details required.
7. Use filters to show required data
8. Arrange all charts and visualizations in a proper way
9. Publish the report by adding all measures using publish report tab on Ribbon.
10. Power BI Service:
11. Open Power BI Service
12. From the left, select the workspace where we need to create the report
13. Select data source and connect
14. Select fields from fields view which we want to use
15. Drag the fields on the canvas to create visualization.
16. Use different chart and graphs for use from visualization tab
17. Place all charts in a proper and presentable way.
18. At last , Save the report

Q4 )How to connect to data in Power BI? How to use the content pack to connect to google analytics? Mention the steps.

Ans) Select Get data from the home ribbon and choose from various platform from where we want to take data for making report. Once we choose a data source , the data is loaded, if we want to transform data we will use power query.

Some sources are:

Xlsx file, CSV , MYSQL, SNOWFLAKE and lots of sources

Google Analytics pack:

This is mainly used when we want to analyse data through google analytics database.

For accessing this we will perform following steps:

1. Click on get data and choose onlice services.
2. Select Google Analytics from the list.
3. Choose the suitable view from google analytics.
4. Select the time duration within which we want to analyze data.
5. After all, click on connect , the data will be loaded into power bi and will be available in fields pane.

Q5) How to import Local files in Power BI? Mention the Steps.

Ans) Local files are commonly in the form of xlsx , CSV, PDF, TEXT, JSON and XML.

These all can be done using following steps:

1. Go to home ribbon and choose get data
2. Here we will get list of sources from where we want to import data
3. Select the format of like like xlsx, csv, pdf , access filr and load it
4. If we want to modify the data we will select transform data link.
5. After loading the data will get uploaded and visible in right side of fields

Q6 ) In Power BI visualization, what are Reading View and Editing view?

Ans) These are different ways to interact with the power bi report

1. Reading View : Reading view is use to explore and interact with reports created by report owner.
2. Editing View : Editing view is used by report owner who create the report and make it meaningful for stakeholders