**Power BI Assignment 5**

1. Explain DAX.

Ans:

* 1. DAX, Data Analysis Expression is a formula language used to create custom calculations and aggregations within your data.
  2. Dax is used to create formulas for calculated columns, calculated tables and measures.
  3. DAX operates in two primary contexts – filter context and row context.

Filter context is applied by filters set on report or visual level and it affects entire calculation.

Row context is based on current row in table and influences calculations row by row.

* 1. DAX also includes specialized functions for working with time-based data called Time Intelligence Functions.
  2. Dax leverages relationships between tables in data model and provides functions for handling errors.

1. Explain datasets, reports, and dashboards and how they relate to each other?

Ans:

* 1. A dataset is a collection of data that has been imported or connected to Power BI for analysis. It can include one or more tables of data with relationships between them. Datasets can be imported or connected to live data sources.
  2. A report is collection of visualisation, tables, maps and charts created using data from one or more datasets.
  3. A dashboard is a higher level, interactive and real time display of key performance indicators and visualisations derived from one or more reports.
  4. Datasets serve as foundation for reports and dashboards. A report is created based on specific dataset and it contains visualisations that convey insights from dataset.

Reports and Dashboards are often published to Power BI service where they can be shared and accessed by others in organisations.

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

Ans:

* 1. First way is to use Power Bi desktop:
     + 1. After loading data in Power BI, load or transform the data using Power query editor.
       2. Switch to report view to design reports.
       3. Save Power Bi desktop files and publish to Power BI service.
  2. Second way is to use Power Bi service:
     + 1. Sign Iin to your Power BI account.
       2. Locate the workspace where you want to create or upload the report and upload it to workspace.

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

Ans:

* 1. After launching Power Bi Desktop, click on “Home” tab into it.
  2. Select “Get Data” to initiate the process of connecting to your data source.

From the list of available data sources select “Online Services”.

* 1. Select “Google analytics” in list of online services.

You will be prompted to sign in to Google account. Enter your credentials to allow Power BI to access your Google Analytics data.

* 1. Once signed in, you may need to configure settings such as selecting Google Analytics account, choosing the view and specifying data range.
  2. After configuring the settings, click “Load” to import Google Analytics data into Power BI.

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

Ans:

* 1. After opening Power Bi desktop, open ‘Get Data’ option.
  2. Select file type you want to connect to.
  3. Click on Load or Transform Button to import local file in Power BI.

1. In Power BI visualization, what are Reading View and Editing view?

Ans:

* 1. In Power BI visualization, editing view mode where you create, design and modify reports and dashboards.
  2. In editing view, you can import data, create relationships between tables, design visualisations, add measures and calculated columns using DAX.
  3. Reading view is preview mode within Power BI desktop that allows you to see how your report will appear to end users without editing capabilities.