**Power BI Assignment 3**

# List and explain different Power Bi products?

1. Power Bi desktop: This free desktop application for designing and building interactive reports data, visualizations and dashboards. with this we can explore and transform data.

2. Power Bi services: A cloud based service for sharing collaborating and publishing power Bi reports and dashboard, with this we can hosting and sharing reports, collaborating with team members.

3. Power Bi mobile: Mobile applications (Ios and android) for accessing power Bi dashboard and report on the go. It uses to view reports, monitoring data from mobile devices.

4. Power Bi reports server: An on premises solution for hosting and managing power Bi reports and dashboards.

5. Power Bi embedded: A set of APIs and tools for embedding power Bi reports and dashboards into custom applications and websites.

6. Power Bi premium: A dedicated cloud capacity for organizations, offering enhanced performance and features.

7. Power Bi data gateway: For connecting to on premises data sources, refreshing data in the cloud.

8. Power Bi connectors: The connectors for various data sources (examples = Databases, online services) to import data into power Bi for analysis.

9. Power query: A data connection and transformation tool within power Bi used to clean, shape, transform data and preparing data for analysis.

10.Power Bi rest API: It allows developers to programmatically interact with power Bi objects using Http request for automating tasks, managing reports and dashboards through code.

# What limitations of Excel, Microsoft solved by PowerBi?

Power Bi has a modern business intelligence tool, addresses following limitations: Data volume and performance, data integrations, Real time data analysis, data modelling and relationships, collaborations and sharing, interactive dashboards, data security and governance , mobile accessibility, embedding analytics – these limitations by providing a scalable , collaborative and feature-rich platform for data analysis, reporting and visualization.

# Explain PowerQuery?

Power query is a data connection and transformation tool that is part of Microsoft BI suite. It also available as an add-in for excel. It enables user to connect to various data sources, transform and shape the data and their load into their preferred destination such as power Bi and excel. Power Query enhances the data preparation process by providing a user friendly visual interface for data transformation and cleaning.

# Explain PowerMap?

Power Map is a feature in a Microsoft Excel that provides users to visualise geographical and temporal data in 3D maps. It helps for analysing temporal patterns and trends.

# How powerBi eliminated the need to host SharePoint Server on premises?

Power Bi has significantly impacted the traditional need for hosting share point servers on premises in several ways. By leveraging power Bi cloud bases capabilities, organization can benefit from increased flexibility, scalability and reduced infrastructure management overhead.

# Explain the updates done in Power Bi Service(power BI 2.0) as compared to older version ?

Power Bi significantly improved the preview period. We are able to refresh on-pren datasets, we can modify the look and feel of the reports, we can share resources and much more now. It also helps inn decoupling the 365 groups and power Bi workspaces.