**Dipika Jothinathan : Day 1-Homework**

1. What is Microsoft Power BI desktop?

Power BI is a collection of software services, apps, and connectors that work together to turn unrelated sources of data into coherent, visually immersive, and interactive insights.

2. What is a Power BI designer?

Power BI Designer is a new companion application for Power BI. This application combines Power Query, Power Pivot Data Model and Power View into a seamless experience that will allow customers to build their Power BI elements in an offline fashion and then upload to the Power BI Service.

3. What are the benefits of **self-service BI platforms like Power BI?**

Some notable benefits of self-service BI include:

* Empowerment of end users
* Reduction in reporting backlog
* Cost savings
* Enhanced decision making
* Real-time insights
* Data literacy
* Fostered innovation
* Robust data visualization
* Collaborative environment
* Scalability

4. What are the different types o**f filters in Power BI reports?**

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5. What's the difference between a report and a dashboard in Power BI?

Dashboard is a collection of visuals to tell the story graphically, like charts and graphs, along with features to interact with the end-user. In contrast, a report is generally a detailed summary of the large data set as per the criteria given by the user.

6. What are the **major components of Power BI?**

* Power Query
* Power Pivot
* Power View
* Power Map
* Power Q&A
* Power BI Desktop
* Power BI Website
* Power BI Mobile Apps

7. What are the U**nique features of Power BI over other BI tools?**

Power BI sets itself apart from other tools by offering users a way to visualize data accurately. The interactive dashboards provide an overview of metrics and offer valuable insights, empowering users to effectively monitor performance and make well-informed decisions. Power BI's dynamic dashboards incorporate filters, slicers, and drill-through actions, making it easy to navigate through the dataset effortlessly. These interactive features enable users to analyze data trends, identify details, and detect outliers with ease. Additionally, Power BI's extensive collection of visuals simplifies the creation of dashboards for specific audiences or purposes. Its inclusive and user-friendly design improves data communication capabilities, leading to an understanding of insights that can be promptly acted upon. Whether sharing information with stakeholders or performing data analysis tasks using Power BI ensures a process throughout.

8. What is a Power map?

Microsoft Power Map for Excel is a three-dimensional (3-D) data visualization tool that lets you look at information in new ways. A power map lets you discover insights you might not see in traditional two-dimensional (2-D) tables and charts. With Power Map, you can plot geographic and temporal data on a 3-D globe or custom map, show it over time, and create visual tours you can share with other people.

9. What type of data sources can you connect to the Power BI tool?

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10. What are the **KPIs** in Microsoft Power BI?

A Key Performance Indicator (KPI) is a visual cue that communicates the amount of progress made toward a measurable goal. KPIs are a great choice to measure progress and to measure distance to a goal. The intention of the KPI is to help you evaluate the current value and status of a metric against a defined target. A KPI visual requires a base measure that evaluates to a value, a target measure or value, and a threshold or goal.

11. What is **Slicer in Business Intelligenc**e?

A slicer is another way of effectively filtering data on the dashboard. Users select value(s) from a list by which to “slice” the data. One thing to keep in mind about slicers is that they are technically a type of visualization. Because they are a visualization, when a user interacts with a slicer, a DAX query will be triggered, potentially impacting the dashboard’s performance.