**Power BI Assignment 3**

Submitted by: Gautam Sharma

1. List and explain different Power Bi products?

Answer

**Power BI Desktop**

**Power BI Pro**

**Power BI Premium**

**Power BI Mobile**

**Power BI Embedded**

**Power BI Report Server**

1. What limitations of Excel, Microsoft solved by Power Bi?

Answer

Data size: Excel has a limit on the amount of data it can handle. Power BI can handle much larger datasets.

Data sources: Excel can only connect to a limited number of data sources. Power BI can connect to a wide variety of data sources, including cloud-based data sources.

Data visualization: Excel has a limited number of data visualization options. Power BI has a wide variety of data visualization options, including interactive dashboards and reports.

Data sharing: Excel can only share reports with a limited number of people. Power BI can share reports with a large number of people, including external users.

Data security: Excel does not have a built-in data security feature. Power BI has a built-in data security feature that allows you to control who has access to your data.

In addition to these limitations, Microsoft has also added a number of new features to Power BI that make it a more powerful and versatile tool than Excel. These features include:

AI and machine learning: Power BI includes a number of AI and machine learning features that can be used to automate tasks, identify trends, and generate insights.

Natural language processing: Power BI can understand natural language queries, which makes it easy to find the information you need.

Geospatial analysis: Power BI can be used to analyze geospatial data, such as maps and location data.

Power Automate integration: Power BI can be integrated with Power Automate, which allows you to automate tasks and workflows.

1. Explain Power Query?

Answer

Power Query is a data transformation tool that is included in Power BI. It allows us to connect to a wide variety of data sources, including Excel spreadsheets, text files, databases, and cloud-based services. Once we connect to a data source, we can use Power Query to clean, transform, and reshape your data. We can also use Power Query to create reusable queries that we can apply to different data sources.

1. Explain Power Map?

Answer

Power Map is a 3D data visualization tool that is included in Power BI. It allows us to visualize our data in a new and interactive way. we can use Power Map to:

Create 3D maps of our data

Add filters and drill down into our data

Create animations and tours of our data

Share our visualizations with others

Power Map is a powerful tool that can help us to:

Communicate our data more effectively

Identify trends and patterns in our data

Make better decisions based on our data

1. How power Bi eliminated the need to host SharePoint Server on premises?

Answer

Power BI has eliminated the need to host SharePoint Server on premises in a number of ways.

First, Power BI can be used to publish reports to SharePoint Online, which is a cloud-based version of SharePoint. This means that you no longer need to worry about maintaining and managing a SharePoint Server on your own.

Second, Power BI can be used to create interactive dashboards and reports that can be accessed from anywhere, on any device. This makes it easy for users to get the information they need, when they need it.

Third, Power BI is integrated with a wide range of data sources, including Excel, SQL Server, and Azure Data Lake. This means that you can easily connect to your data and start creating reports.

Overall, Power BI provides a number of benefits that make it a compelling alternative to hosting SharePoint Server on premises. These benefits include:

Cost savings:

Ease of use

Scalability

Security

If we are looking for a way to improve your organization's business intelligence capabilities, Power BI is a great option. It can help you to save money, improve efficiency, and make better decisions.

Here are some additional benefits of using Power BI instead of SharePoint Server on premises:

Reduced IT costs

Increased agility

Improved collaboration

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

Answer

Power BI 2.0 is a major update to the Power BI service that includes a number of new features and improvements. Some of the key updates include:

New data connectors: Power BI 2.0 includes new data connectors for a variety of data sources, including Salesforce, Google Analytics, and Amazon Redshift.

Enhanced data preparation: Power BI 2.0 includes enhanced data preparation capabilities, including new tools for cleaning, transforming, and enriching data.

Improved modeling: Power BI 2.0 includes improved modeling capabilities, including new tools for creating calculated columns, measures, and relationships.

New visuals: Power BI 2.0 includes a number of new visuals, including a heat map, a treemap, and a waterfall chart.

Improved performance: Power BI 2.0 includes a number of performance improvements, making it faster and easier to create and interact with reports.