### Power BI Assignment

### Day-1

### What are the various versions of Power BI?

**Answer : -** Power BI, Microsoft's business analytics service, offers several versions to cater to different user needs and organizational requirements. As of my last update in April 2023, the main versions of Power BI are:

**Power BI Desktop:** This is a free desktop application available for Windows. It's designed for individual users to create and design reports and data visualizations. Power BI Desktop is ideal for those who want to explore data, build reports, and perform detailed analytics.

**Power BI Pro:** This is a subscription-based service offering more advanced features, including collaboration tools and the ability to share reports and data dashboards with other Power BI Pro users. It's suitable for businesses that need to distribute reports broadly across an organization.

**Power BI Premium:** Aimed at large enterprises, Power BI Premium provides higher capacity in terms of data processing and performance. It offers dedicated cloud computing and storage resources and additional features like larger data volumes, higher refresh rates, and more extensive data modeling capabilities.

**Power BI Mobile:** This version is designed for accessing Power BI reports on mobile devices. It's available as an app for iOS, Android, and Windows mobile devices, allowing users to view and interact with Power BI dashboards and reports on the go.

**Power BI Embedded:** This is for developers who want to embed Power BI dashboards and reports into their own applications. This service allows the integration of interactive data visualizations and reports into apps to provide enhanced user experiences.

**Power BI Report Server:** An on-premises report server for companies that need to keep their data and reporting infrastructure within their own data center for regulatory or policy reasons. It's designed for businesses with strict regulations around data sovereignty and security.

**Power BI Service:** Also known as Power BI Online, it's a cloud-based service that provides a full range of capabilities for creating, sharing, and collaborating on business intelligence and analytics.

Each version is tailored to specific use cases, from individual data analysts and small teams to large enterprises with complex data needs. It's important to choose the version that best aligns with your organization's size, budget, and data handling requirements.

### Day-2

### Drag the Country from the region\_data then in the report view and mention the name of the visual in the text box and add the labels in the visual.

### Day-3

1. Create a basic map visual on the report page using the Global superstore and Use the region column in the slicer visual to get interacted with the map visual.

### Day-4

### Create a basic scatter plot using sales and Profit information and represent it (refer to region column), which helps identify the highest green color and lowest sales red color.

### Day-5

### Create a line and clustered chart and compare this year vs last year's sales along with growth % ?

### Day-6

### Import data from [2023 Worldwide Box Office - Box Office Mojo](https://www.boxofficemojo.com/year/world/?ref_=bo_nb_yl_tab) and add the past 3 years of data in the Power Query editor, create a master table of the past 3 years of data, and load only master data in the power bi query editor or power bi desktop?

### Delete unwanted columns, replace, or remove the error value in the master table and format the data and represent the column quality.

### Day-7

### Add all 3 tables from the model and create a table to show the detailed information for each day wise the sum of order quantity, shipped quantity, and delivered quantity. Kindly use a card visual to show the difference between the total order quantity and the shipped quantity, the 2nd difference between total order quantity and delivered quantity, using quick measure.

1. If there is a difficulty with tables having many-to-many relationships. Create an intermediate table (also known as a bridge table) to handle many-to-many relationship issues.

### Day-8

1. Refer to question no. 6! After importing all the 3 years of the data, kindly add the custom column of specific year data for e.g. (if you have imported the data for the year 2023, please create a new column called year and add 2023 for each row).

### Day-9

### Refer to Global superstore data.

1. Create a map visual and use the drill down to show detailed information for each country by state. (For detailed information you can use the region slicer).

### Day-10

Refer to Financials sample data.

1. Create a clustered column chart referring to the order date and sales, then apply bookmarks based on date year, quarter, and month.  
   Chart, bar chart

   Description automatically generated
2. Create a country overview page and add another page that contains detailed information about the country with drill through options.
3. Add the reset image in which all the filters should get removed and the report page should be default in the country information page.

### Day-11

1. Create a new summarize table with selected columns (region, country, sum of sales) from the global superstore and filter the region based on the given conditions, Central Asia, North, South & East.

### Day-12

1. Create a week column based on the order date from the global superstore data.  
   e.g. required output “Week-5”

### Day-13

1. Create a table visual to show the current month's sales vs last month's sales.

### Day-14

1. Insert the scroller custom visual and add it to the report page referring to the country and profit column.

### Day-15

1. Create a shared workspace and add the organization members to the workspace then publish the report.