### Power BI Assignment

### Note: Solve all the powerbi assignments in a single Powerbi workbook and submit your assignment in .pbix format only.

### Q1. Power BI Platform

### What is PowerBI and What are the various Platforms of Power BI?

Power BI is a business analytics service developed by Microsoft that enables users to visualize and share insights from their data. It helps organizations make data-driven decisions by transforming raw data into meaningful and interactive visualizations, such as dashboards, reports, and charts. Power BI is widely used for data analytics, reporting, and business intelligence.

Key Platforms of Power BI:

1. **Power BI Desktop:** A free PC application for creating and publishing reports.
2. **Power BI Service**: A cloud-based platform for sharing and collaborating on reports and dashboards online.
3. **Power BI Mobile**: A mobile app for accessing reports on the go.
4. **Power BI Report Server**: An on-premises solution for hosting and managing reports within an organization's data centre.
5. **Power BI Embedded**: A service for embedding Power BI visuals into custom applications.
6. **Power BI Premium**: A subscription service offering dedicated resources, enhanced performance, and advanced features for enterprise needs.

### Q2. Dax

### Create a line and clustered column chart and compare this year vs last year's sales along with growth % using DAX? Refer superstore dataset

### Q3. Data Modeling

### 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?

### Q4. Waterfall chart

Create the Waterfall Chart to show Category-wise, Yearly Analysis using Superstore Dataset.

### Q5. Hierarchy: -

### Create the Hierchey and rename with Location for Country-State-Region-City -Postal Code and Show the Location wise Sales using Superstore Dataset

### Q6. Book mark

Create a clustered column chart referring to the order date and sales, then apply bookmarks based on date Year, Quarter, and Month using **Finance Dataset.**  
Chart, bar chart

Description automatically generated

### Q7. Drill through

Create Donut Chart to Show region wise Profit and Drill through the other page with West Region using Superstore Dataset

### Q8. Conditional formatting

Using Superstore Dataset, create a table visual to show the Subcategory Wise Sales Profit Quantity Discount and Apply Conditional Formatting based on the below condition:

* Sales: Apply background color with lowest in red and highest in green.
* Profit: Use arrow icons, red for profit < 0 and green for profit > 0
* Quantity: Apply data bars.
* Discount: Set font color to red for lowest and green for highest.

### Q9. Dashboard

Create the Finance Dashboard and add Navigation, Cards, Charts, Link to the Website and Slicer **(Using Finance Dataset)**

[**https://app.powerbi.com/links/W8xoObKTs-?ctid=fb08edbd-bf6f-42d3-b91d-5ba4effe4be6&pbi\_source=linkShare**](https://app.powerbi.com/links/W8xoObKTs-?ctid=fb08edbd-bf6f-42d3-b91d-5ba4effe4be6&pbi_source=linkShare)