**Power BI Assignment 1**

What do you mean by BI? Explain.

Sol:

Business intelligence (BI) refers to the procedural and technical infrastructure that collects, stores, and analyses the data produced by a company’s activities.

BI is a broad term that encompasses data mining, process analysis, performance benchmarking, and descriptive analytics. BI parses all the data generated by a business and presents easy-to-digest reports, performance measures, and trends that inform management decisions.

How Power-BI helps in BI, and how does it help Analysts? Explain.

Sol:

The world of Business Intelligence has been simplified with an easy and quick business intelligence tool for **effective Data Visualization** i.e., the Power BI. This Business Analytics service by Microsoft brings together raw data from various sources like a simple spreadsheet on a desktop to a cloud-based data.

The advanced analytics features in Power BI **allow business users to analyse data and share insights across all levels of an organization**. Power BI gives an end-to-end view of important metrics and key performance indicators through intuitive and interactive dashboards- all in real-time, in one place.

Explain Descriptive analytics?

Sol:

Descriptive analytics is **the process of parsing historical data to better understand the changes that have occurred in a business**. Using a range of historic data and benchmarking, decision-makers obtain a holistic view of performance and trends on which to base business strategy.

Explain Predictive analytics?

Sol:

The term predictive analytics refers to the use of statistics and modelling techniques to make predictions about future outcomes and performance. Predictive analytics looks at current and historical data patterns to determine if those patterns are likely to emerge again. This allows businesses and investors to adjust where they use their resources to take advantage of possible future events. Predictive analysis can also be used to improve operational efficiencies and reduce risk.

Explain perspective analytics?

Sol:

Prescriptive analytics is **the process of using data to determine an optimal course of action**. By considering all relevant factors, this type of analysis yields recommendations for next steps. Because of this, prescriptive analytics is a valuable tool for data-driven decision-making.

Write five real-life questions that PowerBi can solve.

Sol:

Five real world problems PowerBI can solve is:

1. Visualization = Inbuilt feature
2. Server-Level Data Management
3. Analytics With Internal Software Systems
4. Provide complex data within software and apps
5. Streamline Organizational Processes