**Power BI Assignment 1**

1. What do you mean by BI? Explain.

Ans: Business intelligence (BI) is a technology-driven process for analyzing data and delivering actionable information that helps executives, managers and workers make informed business decisions. As part of the BI process, organizations collect data from internal IT systems and external sources, prepare it for analysis, run queries against the data and create data visualizations, [BI dashboards](https://www.techtarget.com/searchbusinessanalytics/definition/business-intelligence-dashboard) and reports to make the analytics results available to business users for operational decision-making and [strategic planning](https://www.techtarget.com/searchcio/definition/strategic-planning).

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

Ans: One of the main strengths of Power BI is its intuitive user interface that allows both technical and non-technical analysts to build data visualizations and analyses efficiently.

The user-friendly drag-and-drop interface makes it easy to answer complex data-related questions without the need for programming skills. This simplicity lowers the barrier for users to perform advanced analytics such as trend analyses, regressions, and statistical summaries.

Power BI can also be integrated with a variety of existing Microsoft apps, such as Microsoft teams, Excel, and PowerPoint, which makes integrating data insights into existing workflows much easier.

1. Explain Descriptive analytics?

Ans: 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.

1. Explain Predictive analytics?

Ans: Predictive analytics is a branch of advanced analytics that makes predictions about future outcomes using historical data combined with statistical modeling, data mining techniques and[machine learning](https://www.ibm.com/cloud/learn/machine-learning). Companies employ predictive analytics to find patterns in this data to identify risks and opportunities.

1. Explain perspective analytics?

Ans: **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](https://online.hbs.edu/blog/post/data-driven-decision-making).

1. Write five real-life questions that PowerBi can solve.

Ans: Waiting On Figures.

Using Data From Old Reports.

Excessive Time Spent Preparing For Presentations.

Being Unable To Find Specific Data Sets.

Not Being Able To Determine Your Level Of Success.