**Power BI Assignment 1**

1. What do you mean by BI? Explain.
2. How Power-BI helps in BI, and how does it help Analysts? Explain.
3. Explain Descriptive analytics?
4. Explain Predictive analytics?
5. Explain perspective analytics?
6. Write five real-life questions that PowerBi can solve.

Ans 1.

The procedural and technological framework that gathers, saves, and analyses the data generated by a company's operations is known as business intelligence (BI).

Business Intelligence is a broad phrase that includes descriptive analytics, performance benchmarking, process analysis, and data mining. Business intelligence (BI) organises all the data that a company generates into manageable reports, performance metrics, and trends.

1.

A BI and data visualisation application called Power BI uses visual analytics to help individuals and businesses make the most of their data. The powerful visualisations produced by Power BI advance the excel workflow and aid stakeholders in making sense of the vast amounts of data at their disposal.

Power BI, which is used to democratise data insights by over 6 million people and 97% of Fortune 500 firms, is the top data visualisation tool.

According to Gartner. There are two parts to Power BI: The Power Query Editor is part of the free desktop edition of Power BI, which enables data analysis and report development.

2.

An early stage of data processing called descriptive analytics is an example of retrospective analysis that explores past actions and forecasts future results. Many firms utilise descriptive analytics, also referred to as business intelligence (BI), to analyse raw data and analyse historical events. This fundamental type of analytics makes use of company reporting by looking at both the past and the future to provide a strategy.

While descriptive analytics may be able to provide some insight into what has already occurred and what is happening right now using data mining and data aggregation techniques, deeper insights require data visualisation and extra querying.

When an aggregation is required to filter historical data and examine a company's performance overall, descriptive analytics come into play.

3.

Predictive analytics utilising Power BI: With Power BI AutoML, the data science behind the development of Machine learning models is automated by Power BI, ensuring that business analysts, data professionals, and developers without a background in data science may design excellent predictive models. The important characteristics of your inputs that have the most impact on the predictions your model makes are highlighted by the AI visualisations. Most significantly, the predicted insights can be put to use in the context of business processes. An outline of each stage is provided below. Please be aware that Power BI premium workspaces are presently required for data ingestion and refresh.

4.

Prescriptive analytics is a process that examines data and immediately offers suggestions on how to improve company procedures to accommodate various anticipated results. In essence, prescriptive analytics uses the "what we know" (data) to predict potential outcomes and offers the optimal course of action based on well-informed simulations.

5. These are the five real-life questions that PowerBi can solve.

* First BI (Business Intelligence) solutions that can access to the data is limited but power can access data through differnent sources in multiple formats.
* To calculate performance management in Power Bi is near from perfection.
* It can create multiple systems to differenet levels of organization according to their need in less time.
* With their minimal design, it easy use by anyoe in the organization teams to develop custom reports
* With BI now the market are responsive enough to tackle any crisis.
* Actionable insights are almost now possible to find ( progress report of teams).