**Power BI Assignment 1**

1. What do you mean by BI? Explain.

- Power BI is a Business Intelligence tool which will help us to analyze our data , clean our data and convert it into visual format. PowerBI is a collection of the below components :

Power Query , Power Pivot , Power View , Power BI Service

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

-PowerBI is a BI(Business Intelligence )tool that connect various sources of data, clean it up and transform it into a data model for clear Data Visualization (graphs, charts etc.) And share it with other users within your organization.

Using the below components it helps :

Power Query – Power query is an ETL tool which will extract transform and load the data or in other words cleaning the data . When we have diff null records , empty records etc it will clean the data for visualization .

Power Pivot – It is used for Data Modelling . If we have multiple data sources and we want to create relationship between them we can use Power Pivot

Power View – It is for visualization .It can help us to create 250 approx charts that can be bar charts , donut chart or sanky chart . These diff charts will be useful for presentation , reports and dashboards .

Power BI Service – If we want to share the report after visualization we can use this . It will help users to communicate with each other via that reports

Power BI provides insight data to analysts by using data interactively and exploring it by visualizations

1. Explain Descriptive analytics?

- Descriptive analytics is the process of using current and historical data to identify trends and relationships. It's sometimes called the simplest form of data analysis because it describes trends and relationships but doesn't dig deeper.

1. Explain Predictive analytics?

- 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. Companies employ predictive analytics to find patterns in this data to identify risks and opportunities.

1. Explain perspective analytics?

- 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

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

* 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