**---------------------------------------------Power BI Assignment 1--------------------------------**

Q1) what do you mean by BI? Explain.

ANS: BI means Business intelligence, which is software that ingests business data and presents it in user-friendly views such as reports, dashboards, charts and graphs. BI offers a way for people to examine data to understand trends and derive insights.

Organizations can use the insights gained from business intelligence and data analysis to improve business decisions, identify problems or issues, spot market trends, and find new revenue or business opportunities.

Q2) How Power-BI helps in BI, and how does it help Analysts? Explain.

* ANS: Power BI is a BI and data visualization tool that leverages visual analytics to empower people and organizations in making the most of their data.
* Power BI has very simple and easy to use Interface. No programming experience is required to use Power-BI. It has inbuilt intelligence which helps you to select attributes for your reports by suggesting the best reporting element.
* Power BI comes with easy to collaborate options. The user can collaborate with co-workers to create interactive reports and dashboards in “app” workspaces. The user can compile dashboards and reports into apps and can publish them to a larger audience. Sharing dashboards or reports with a small audience is facilitated even over the Mobile App with Power BI.
* Power BI desktop is free and the user can develop reports and dashboards that are easy and complex. The pro licenses of Power BI are within the affordable range (USD 10 per month).
* Power BI comes with a wide range of connectors for data sources like Microsoft Excel, SQL Server database, MySQL database, Oracle database, IBM DB2 database, IBM Netezza, IBM Informix, PostgreSQL database, Sybase database, SAP Hana, Amazon Redshift, Azure SQL Database, Azure SQL Data warehouse, Azure Analysis services database, Azure Blob Storage, MailChimp, Facebook, GitHub, Salesforce and many more.
* Visualisation , Data Shaping and Data Modelling all can be done in Power Bi

Q3) Explain Descriptive analytics?

Ans: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.

Descriptive analytics is relatively accessible and likely something your organization uses daily. Basic statistical software, such as Microsoft Excel or Data Visualisation tools such as Google Charts and Tableau, can help parse data, identify trends and relationships between variables, and visually display information.

Descriptive analytics is especially useful for communicating change over time and uses trends as a springboard for further analysis to drive decision making

Q4) Explain Predictive analytics?

ANS: Predictive analytics is the process of using data to forecast future outcomes. The process uses data analysis, machine learning, artificial intelligence, and statistical models to find patterns that might predict future behaviour. Organizations can use historic and current data to forecast trends and behaviours seconds, days, or years into the future with a great deal of precision.

The workflow for building predictive analytics are divided into 5 steps

1. Define the problem
2. Acquire and Organize data
3. Pre-process data
4. Develop Predictive Models
5. Validate and deploy results

Q5) Explain perspective analytics?

An: Prescriptive analytics is a statistical method that focuses on finding the ideal way forward or action necessary for a particular scenario, based on data. Prescriptive analytics uses both descriptive and predictive analytics but the focus here remains on actionable insights rather than data monitoring.

Q6) Write five real-life questions that Power Bi can solve.

* Ans: Waiting on figures
* Using data from old reports
* Excessive time spent Preparing for Presentations
* Being unable to spot the specific dataset
* Not being able to determine your level of success

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