**Assignment 1**

*Q1) what is BI?*

*ANS –* BI (Business Intelligence) is a set of processes which can convert raw data into meaningful information after which we can take business decisions for profitable actions.

BI tools perform data analysis and create reports, summaries, dashboards, maps, graphs, and charts to provide users with detailed intelligence about the nature of the business.

*Q2) What are three basic Elements of Power BI?*

*ANS –* The three basic elements of power BI are **Power BI Desktop**, **Power BI Service** and **Power BI mobile apps**.

*Q3) What is power BI?*

*ANS -* Power BI is a Data Visualization and Business Intelligence tool that converts data from different data sources to interactive dashboards and BI reports. It is developed by [**Microsoft**](https://en.wikipedia.org/wiki/Microsoft) with primary focus on intelligence.

*Q4) Explain, how can we import data in power BI?*

*ANS –* You can connect to data by using the **Home** ribbon. To show the **Most Common** data types menu, select the **Get data** button label or the down arrow.

*Q5) Name some BI tools other than Power BI?*

*ANS –* BI Tools other than Power BI are Tableau Desktop, Qlik Sense, SAP BusinessObjects BI Suite, Sisense Fusion Analytics, TIBCO Spotfire, MicroStrategy, Looker, IBM Cognos Analytics

**NOTE – Extra part of QUESTION NUMBER - 04**

The **Get Data** dialog box organizes data types in the following categories:

* All
* **File**
* **Database**
* **Power Platform**
* **Azure**
* **Online Services**
* **Other**

**File data sources**

The **File** category provides the following data connections:

* Excel Workbook
* Text/CSV
* XML
* JSON
* Folder
* PDF
* Parquet
* SharePoint folder

**Database data sources**

The **Database** category provides the following data connections:

* SQL Server database
* Access database
* SQL Server Analysis Services database
* Oracle database
* IBM Db2 database
* IBM Informix database (Beta)
* IBM Netezza
* MySQL database
* PostgreSQL database
* Sybase database
* Teradata database
* SAP HANA database
* SAP Business Warehouse Application Server
* SAP Business Warehouse Message Server
* Amazon Redshift
* Impala
* Google BigQuery
* Vertica
* Snowflake
* Essbase
* Actian (Beta)
* Amazon Athena
* BI Connector
* Data Virtuality LDW
* Denodo
* Dremio Software
* Dremio Cloud (Beta)
* Exasol
* Indexima
* InterSystems IRIS (Beta)
* Jethro (Beta)
* Kyligence
* Linkar PICK Style / MultiValue Databases (Beta)
* MariaDB
* MarkLogic
* TIBCO(R) Data Virtualization
* AtScale cubes

**Power Platform data sources**

The **Power Platform** category provides the following data connections:

* Power BI datasets
* Power BI dataflows
* Common Data Service (Legacy)
* Dataverse
* Dataflows

**Azure data sources**

The **Azure** category provides the following data connections:

* Azure SQL Database
* Azure Synapse Analytics SQL
* Azure Analysis Services database
* Azure Database for PostgreSQL
* Azure Blob Storage
* Azure Table Storage
* Azure Cosmos DB
* Azure Data Explorer (Kusto)
* Azure Data Lake Storage Gen2
* Azure Data Lake Storage Gen1
* Azure HDInsight (HDFS)
* Azure HDInsight Spark
* HDInsight Interactive Query
* Azure Synapse Analytics workspace (Beta)
* Azure Time Series Insights (Beta)
* Azure Cost Management
* Azure Databricks

**Online Services data sources**

The **Online Services** category provides the following data connections:

* SharePoint Online List
* Microsoft Exchange Online
* Dynamics 365 (online)
* Dynamics 365 (Dataverse)
* Dynamics NAV
* Dynamics 365 Business Central
* Dynamics 365 Business Central (on-premises)
* Azure DevOps (Boards only)
* Azure DevOps Server (Boards only)
* Salesforce Objects
* Salesforce Reports
* Google Analytics
* Adobe Analytics
* appFigures (Beta)
* Data.World - Get Dataset (Beta)
* GitHub (Beta)
* LinkedIn Sales Navigator (Beta)
* Marketo (Beta)
* Mixpanel (Beta)
* Planview Enterprise One - PRM (Beta)
* QuickBooks Online (Beta)
* Smartsheet
* SparkPost (Beta)
* SweetIQ (Beta)
* Planview Enterprise One - CTM (Beta)
* Twilio (Beta)
* Zendesk (Beta)
* Asana (Beta)
* Assemble Views
* Automation Anywhere
* Automy Data Analytics (Beta)
* Dynamics 365 Customer Insights (Beta)
* Emigo Data Source
* Entersoft Business Suite (Beta)
* eWay-CRM
* FactSet Analytics
* Palantir Foundry
* Hexagon PPM Smart API
* Industrial App Store
* Intune Data Warehouse (Beta)
* Projectplace for Power BI
* Product Insights (beta)
* Quick Base
* SoftOne BI (beta)
* Spigit (Beta)
* TeamDesk (Beta)
* Webtrends Analytics (Beta)
* Witivio (Beta)
* Workplace Analytics (Beta)
* Zoho Creator (Beta)
* Digital Construction Works Insights (Beta)

**Other data sources**

The **Other** category provides the following data connections:

* Web
* SharePoint list
* OData Feed
* Active Directory
* Microsoft Exchange
* Hadoop File (HDFS)
* Spark
* Hive LLAP
* R script
* Python script
* ODBC
* OLE DB
* Acterys : Model Automation & Planning (Beta)
* Anaplan Connector v1.0 (Beta)
* Solver
* Bloomberg Data and Analytics
* Cherwell (Beta)
* Cognite Data Fusion
* Delta Sharing
* EQuIS (Beta)
* FHIR
* Google Sheets (Beta)
* Information Grid (Beta)
* Jamf Pro (Beta)
* Kognitwin
* MicroStrategy for Power BI
* Paxata
* QubolePresto (Beta)
* Roamler (Beta)
* SIS-CC SDMX (Beta)
* Shortcuts Business Insights (Beta)
* Siteimprove
* SumTotal
* SurveyMonkey (Beta)
* Microsoft Teams Personal Analytics (Beta)
* Tenforce (Smart)List
* Usercube (Beta)
* Vena
* Vessel Insight
* Zucchetti HR Infinity (Beta)
* BQE Core
* MicroStrategy for Power BI
* Starburst Enterprise
* Amazon OpenSearch Service (Beta)
* OpenSearch Project (Beta)
* Blank Query