

ASSIGNMENT – 01

1) WHAT IS POWER BI ?

POWER BI IS A BUSINESS INTELLIGENCE AND DATA VISUALIZATION TOOL DEVELOPED BY MICROSOFT AND IT IS A TOOL WHICH CONVERTS RAW DATA INTO MEANINGFUL INSIGHTS AND PRESENT INSIGHTS THROUGH INTERACTIVE DASHBOARD, REPORTS AND VISUALIZATIONS

2) WHO DEVELOPED POWER BI ?

POWER BI WAS DEVELOPED BY SQL SERVER REPORTING SERVICE (SSRS) TEAM. THIS TOOL IS MAINLY BASED ON POWERPivot, POWER QUERY AND POWER VIEW WHICH WERE ORIGINALLY AN EXCEL ADD-INS AND IT WAS OFFICIALLY LAUNCHED BY 2015 AND CAME IN TREND AFTER 2022.

3) WHY DO WE USE POWERBI ?

WE MAINLY USE POWER BI FOR:

- DATA VISUALIZATION AND REPORTING
- CONNECT TO MULTIPLE DATA SOURCES
- DATA TRANSFORMATION AND MODELING
- TO MAKE BETTER BUSINESS INSIGHTS
- BUSINESS DECISION MAKING
- ADVANCED ANALYTICS

4) WHAT ARE THE MAIN COMPONENTS OF POWER BI ?

POWER BI DESKTOP - WHERE YOU CREATE REPORTS AND VISUAL ON YOUR COMPUTER.

POWER BI SERVICE - THE CLOUD PLATFORM WHERE YOU SHARE AND VIEW REPORTS.

POWER BI MOBILE - APP TO VIEW REPORTS ON YOUR PHONE.

POWER BI GATEWAY - CONNECTS POWERBI TO YOUR COMPANY DATABASE.

POWER BI REPORT SERVER - HELPS TO KEEP REPORTS INSIDE YOUR COMPANY INSTEAD OF CLOUD

5) WHAT IS POWER BI DESKTOP ?

POWER BI DESKTOP IS A FREE APPLICATION FROM MICROSOFT THAT YOU CAN INSTALL IN YOUR COMPUTER

IT MAINLY USED FOR CONNECTING DATA, TRANSFORMING AND CLEANING THE DATA, BUILDING DATA MODELS, CREATE REPORTS AND VISUALS.

6) WHAT IS POWER BI SERVICE ?

POWER BI SERVICE IS THE CLOUD BASED PLATFORM WHERE YOU PUBLISH, SHARE AND USE THE REPORT AND DASHBOARDS YOU CREATE IN POWER BI DESKTOP.

7) WHAT IS POWER BI MOBILE ?

POWER BI MOBILE IS AN APPLICATION WHICH WAS DEVELOPED FOR USING POWER BI IN MOBILE PHONE AND TABLET.

YOU CAN SHARE INSIGHTS QUICKLY USING APPLICATION ANYTIME ANYWHERE EASILY

8) WHAT IS DIFFERENCE BETWEEN POWERBI DESKTOP AND POWER BI SERVICE ?

POWER BI DESKTOP

- A FREE APPLICATIONS YOU CAN INSTALL IN YOUR WINDOWS
- USED TO CREATE AND DESIGN REPORTS AND DASHBOARDS
- YOU CAN CLEAN, MODEL, BUILDS VISUALS FROM DATA
- WORK IS SAVED AS .pbix FILE

POWER BI SERVICE

- IT IS AN ONLINE SERVICE
- A CLOUD PLATFORM WHERE YOU PUBLISH, SHARE AND USE REPORTS
- USE MAINLY FOR VIEWING, SHARING, COLLABORATING ON REPORT AND DASHBOARDS
- PROVIDE SECURE ACCESS FOR TEAMS
- ACCESSIBLE FROM ANY BROWSER AND POWER BI MOBILE APPLICATION

9) WHAT ARE THE KEY FEATURES OF POWER BI ?

KEY FEATURES:

- DATA CONNECTIVITY
- DATA TRANSFORMATION
- DATA MODELLING
- INTERACTIVE VISUALS
- DASHBOARDS AND REPORTS
- INTEGRATION WITH MICROSOFT TOOLS

10) WHAT TYPE OF DATA SOURCE CAN POWER BI CONNECT TO ?

FILE SOURCE : EXCEL, CSV, XML, JSON, PDF

DATABASE SOURCES : SQL SERVER, ORACLE, MYSQL, POSTGRESQL, IBM DB2, TERADATA, SAP

CLOUD SERVICE : MICROSOFT AZURE, GOOGLE ANALYTICS, SALESFORCE, DYNAMIC 365, POWER BI DATASETS

ONLINE SERVICES AND API : WEB DATA, ODATA FEEDS, REST APIS, GITHUB, MAILCHIMP

11) WHAT IS A VISUALIZATION IN POWER BI ?

A VISUALIZATION IN POWER BI IS SIMPLY A GRAPHICAL REPRESENTATION OF YOUR DATA WHICH CONNECT RAW DATA MEANINGFUL AND UNDERSTANDABLE INSIGHTS

VISUALIZATION IN POWERBI ARE VARIOUS TYPES SUCH AS :

- BAR CHART/COLUMN CHART
- LINE CHART
- PIE/DONUT CHART
- MAP
- TABLES AND MATRICS