

What is Business Intelligence?

Set of tools and techniques used to take right business decisions by using historical data.

BI is not a tool, it is a technology.

ERP – SAP, Microsoft NAV, AX, Business central, Tally

CRM – Sales force, Microsoft CRM

BI – Power BI, Tableau etc..

SSBI – Self service Business Intelligence.

Power BI:

Power BI is basically a reporting tool and BI tool, having advanced analytical capabilities.

POWER BI – Microsoft tool

You can use only windows machine.

History of Power BI:

Released - Oct-2015

Power BI Components:

1. Power BI Desktop
2. Power BI Service
3. Power BI Data Gateway
4. Power BI Report Server
5. Power BI Mobile App
6. Power BI Excel Publisher
7. Power BI Report Builder
8. Power BI Embedded.

1. **Power BI Desktop:** Standalone tool, installed in your PC., used to create reports by using ETL.
2. **Power BI Service:** It is a cloud Interface used to interact with reports, creating dashboards, It is a SaaS Tool, only need a web browser and PBI Service credentials.
3. **Power BI Data gateway:** 1 Manual Refresh 2. Schedule refresh. Data refresh. Used to enable scheduled refresh in data sets, reports, dashboards.
4. **Power BI Report server:** On-premises interface. Intranet. You cannot create dashboards here.
5. **Power BI Mobile App:** sharing.
6. **Power BI Excel Publisher:** Integrate Microsoft excel with Power BI. All the data and visuals.
7. **Power BI Report Builder:** Paginated reports, pixel perfect reports. Ex: Invoice, delivery notes etc. Template is fixed.
8. **Power BI Embedded:** It is used to integrate powerbi with other tools. Like share point, CRM, ERP, Website or Mobile app., you need to know programming language. API's we can integrate.

ETL : Extract, Transform and Load.

1. Extract the data (pulling the data)
2. Transform the data – first name, last name.
3. Load: cleaned data needs to load for analysis.

*Power BI compress your data.

200 MB data file -- 10 to 20 MB.

*Power bi can store the data internally.

*Power bi is enhanced version of Excel.

*Very easy to use and similar interface like Excel.

Tableau??

*Power BI is much user friendly.

Pricing:

1. Free – Power BI Desktop, do not support sharing.
2. Pro – free + Sharing, bulk sharing, data refresh, data alerts etc..
3. Premium – You can do anything. \$5000 / node /month.

Project Roles:

1. **Program manager:** Acquiring the funds, creating projects, building the teams and taking the risk assessment.
2. **Technical Architect:** Accessing the existing env. ETL Architecture design.
3. **Data Architect:** Data requirements.
4. **BI Developer:** Designing, building and writing the ETL packages, Resolving the data issues and developing the data warehouse.