

POWER BI

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- Power BI is a business intelligence tool provided by Microsoft which helps in analyzing , cleaning and visualizing raw data into actionable insights.
- It combines Business analytics and data visualization that help organizations to make data driven decisions.
- It converts data from different sources to build interactive dashboards and Business Intelligence reports.



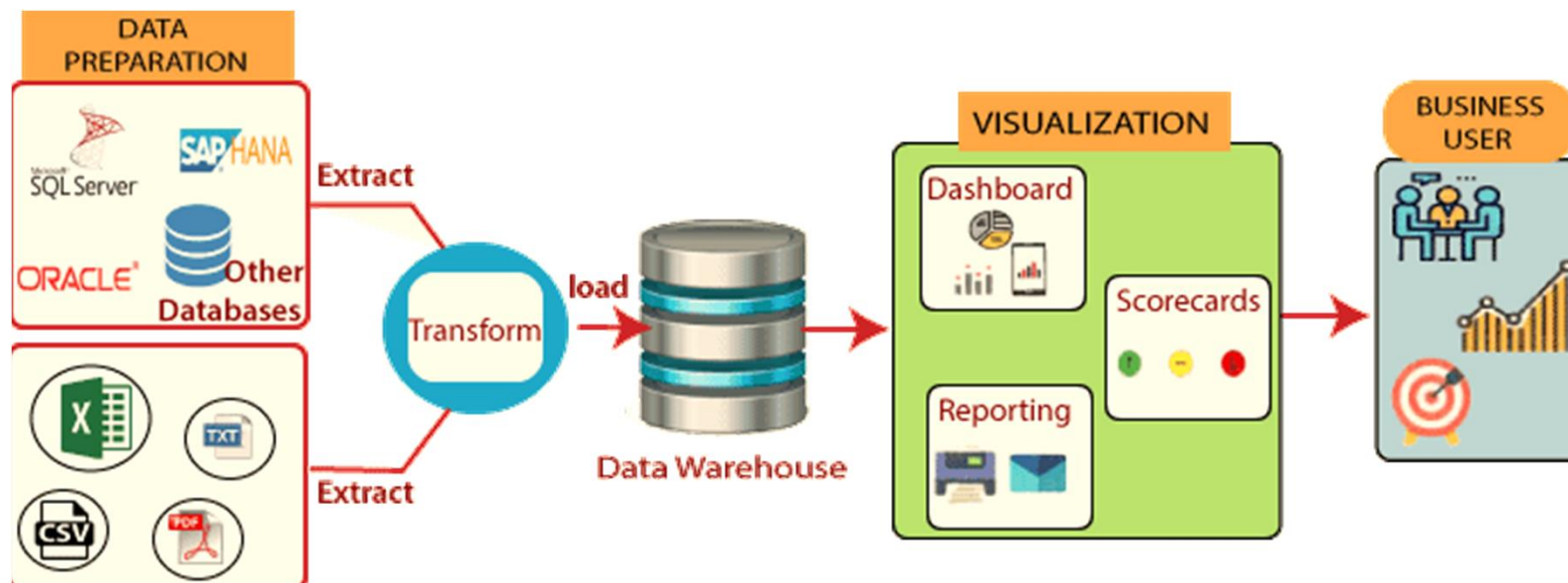
COMPONENTS OF POWER BI

- **Power Query** used for data mash-up and transformation.
- **Power BI Desktop** used for companion development tool.
- **Power BI Mobile** used for Android, iOS, Windows phones.
- **Power Pivot** used for in-memory tabular data modelling.
- **Power View** used for viewing data visualizations.
- **Power Map** used for visualizing 3D geo-spatial data.
- **Power Q&A** used for natural language Q&A.

WHY POWER BI?

- Access to volumes of data from multiple sources.
- Power BI helps to gather , analyze , publish and share excel business data.
- Using Power BI with assure allows you to analyze and share massive volume of data.
- Power BI allows us to gain insights from data and turn those insights into actions to make data driven business decisions using creative reports and dashboards.
- It helps us to fetch data from multiple sensors and social media platforms to get access to real-time analytics.

POWER BI ARCHITECTURE



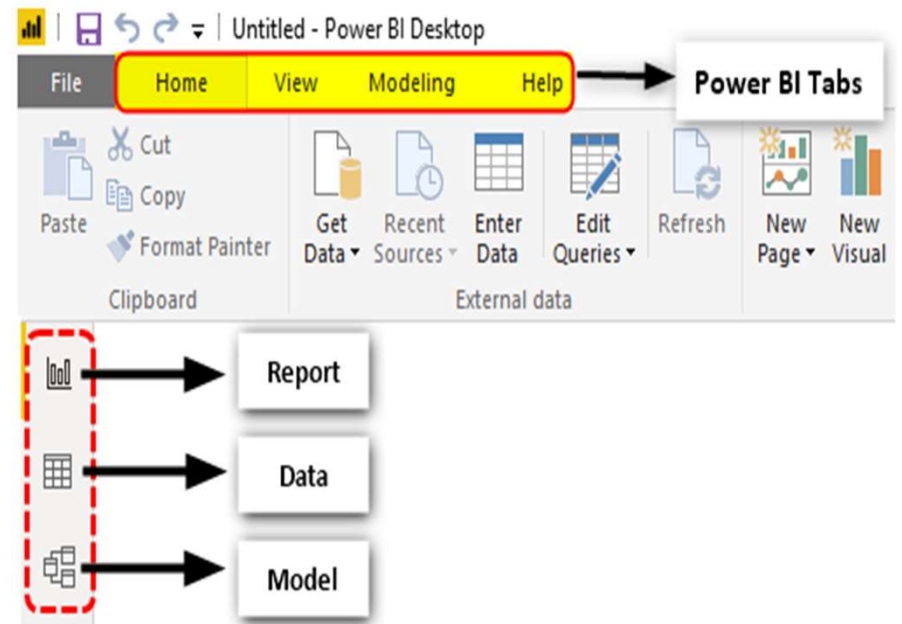
HOW TO DOWNLOAD AND INSTALL POWERBI?

- Search “Power BI Desktop Install” on the internet.
- <https://powerbi.microsoft.com/en-us/desktop/>
- Click on the “Download Free” option to install Power BI.
- Click on the “Get” option, and the Power BI Desktop setup will get downloaded on your computer.
- Once the Power BI Desktop is downloaded, click on the “Install” option. You will see the following window.
- Once the installation is completed, it will take us to the default page of Power BI.



POWER BI DESKTOP PAGE

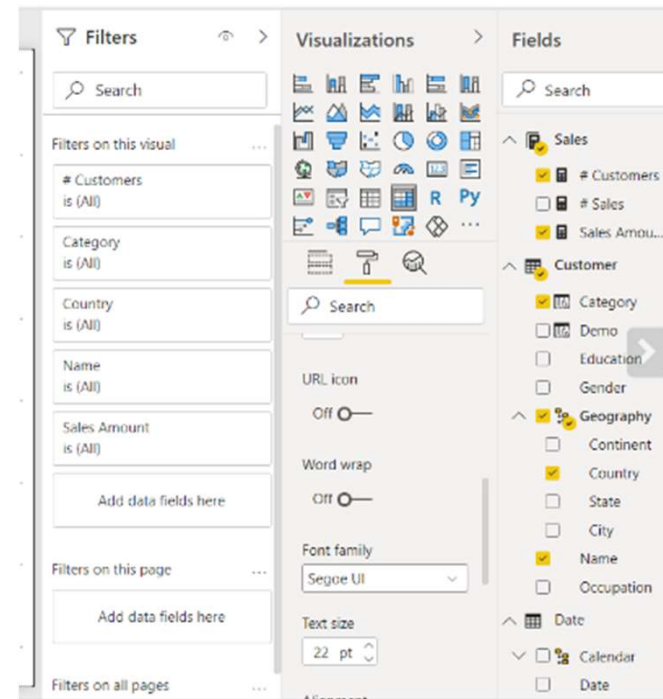
- **Report Layout:** We can build all our **Power Bi Reports** and **dashboards** in this layout.
- **Data Layout:** We can see all our uploaded or created **data tables** in this layout.
- **Model Layout:** In this layout, we can create relationships between multiple tables based on the common columns of the different tables.



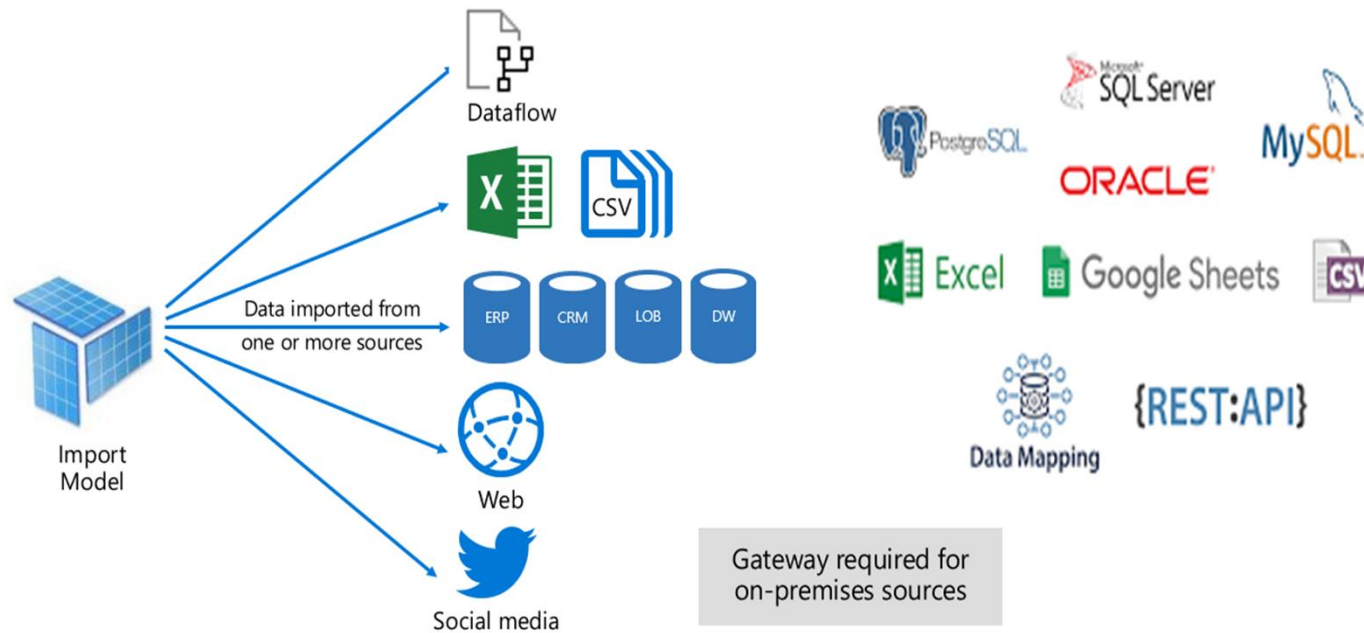
POWER BI DESKTOP

On the right-hand side in the “Report Layout,” we can see three options: “Filters,” “Visualizations,” and “Fields.”

- **Filters:** In this section, we can apply filter columns of the table. Further in this section, we have “**Filters on this page,**” “**Filters on all pages,**” and “**Filters on this Visual.**”
- **Visualizations:** We can use **Power BI Visuals** this section and create visuals for our data.
- **Fields:** This section shows all the columns of our **data table** in A to Z order, not necessarily in the order of table columns.



POWER BI DATA CONNECTIVITY



HOW TO LOAD DATA INTO THE POWER BI?

