

Introduction To Power BI

- What is Business Intelligence?
- BI Use Cases
- BI Tools
- What is Power BI?
- Power BI as part of the Data Analytics lifecycle.
- Applications of Power BI
- Power BI Desktop Installation/Setup
- Navigating Power BI Desktop
- Flow of data in Power BI
- Power BI Architecture
- Building Blocks of Power BI
- Project Ideas



What is POWER BI

Microsoft Power BI is a self-service business intelligence platform, which includes both desktop and web-based applications for connecting, modeling, and visualizing data.



"Images Speaks Better than Words."

FEATURE OF POWER BI?

1. Connect, transform and load millions of rows of data

- Access data from virtually anywhere (database tables, flat files, web, cloud services, folders, etc.), and create fully automated workflows to extract, transform and load data for analysis

2. Build relational models to blend data from multiple sources

- Create table relationships to analyze holistic performance across an entire relational data model

3. Define complex calculations using Data Analysis Expressions(DAX)

- Enhance datasets and enable advanced analytics with powerful and portable DAX expressions

4. Bring data to life with interactive reports and dashboards

- Build professional-quality reports and dashboards with best-in-class visualization tools

5. Develop a versatile, in-demand skill set

- Power BI is the industry leader in self-service BI, and the skills you build in this course will be highly transferrable

Why We Use Power BI



1. Data Visualization:

- Power BI helps transform raw data into interactive and visually appealing reports and dashboards. It makes complex data easy to understand.

2. Integration:

- Power BI integrates seamlessly with various data sources like Excel, SQL Server, cloud services, and more, allowing you to consolidate and analyze data from different platforms.

3. Business Intelligence:

- With Power BI, you can gain insights into your business performance, track key metrics, and make data-driven decisions..

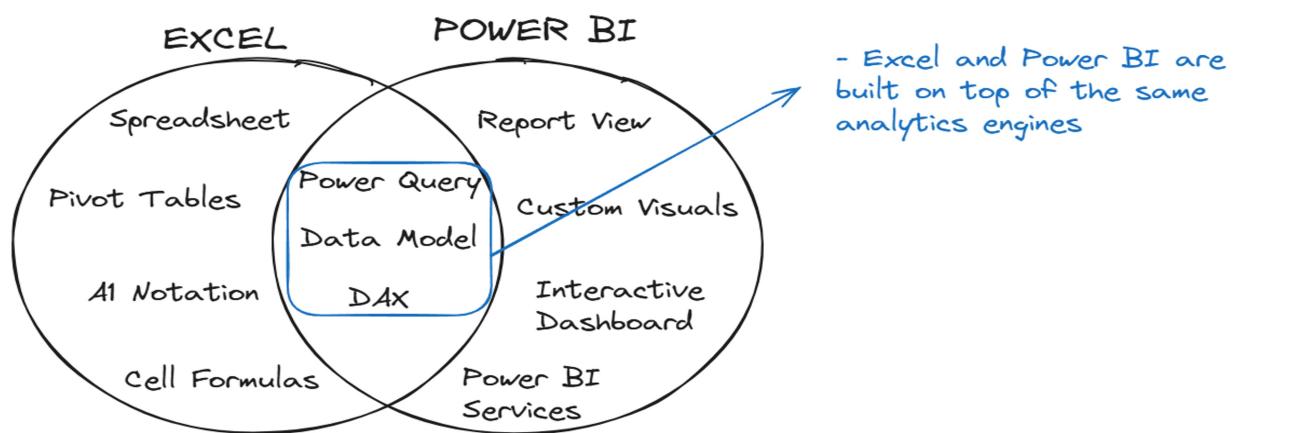
4. Real-time Data:

- You can connect to real-time data sources to ensure your reports and dashboards reflect the most up-to-date information.

5. User-Friendly Interface

- The intuitive interface makes it accessible for users of all skill levels, from beginners to advanced analysts.

EXCEL VS. POWER BI

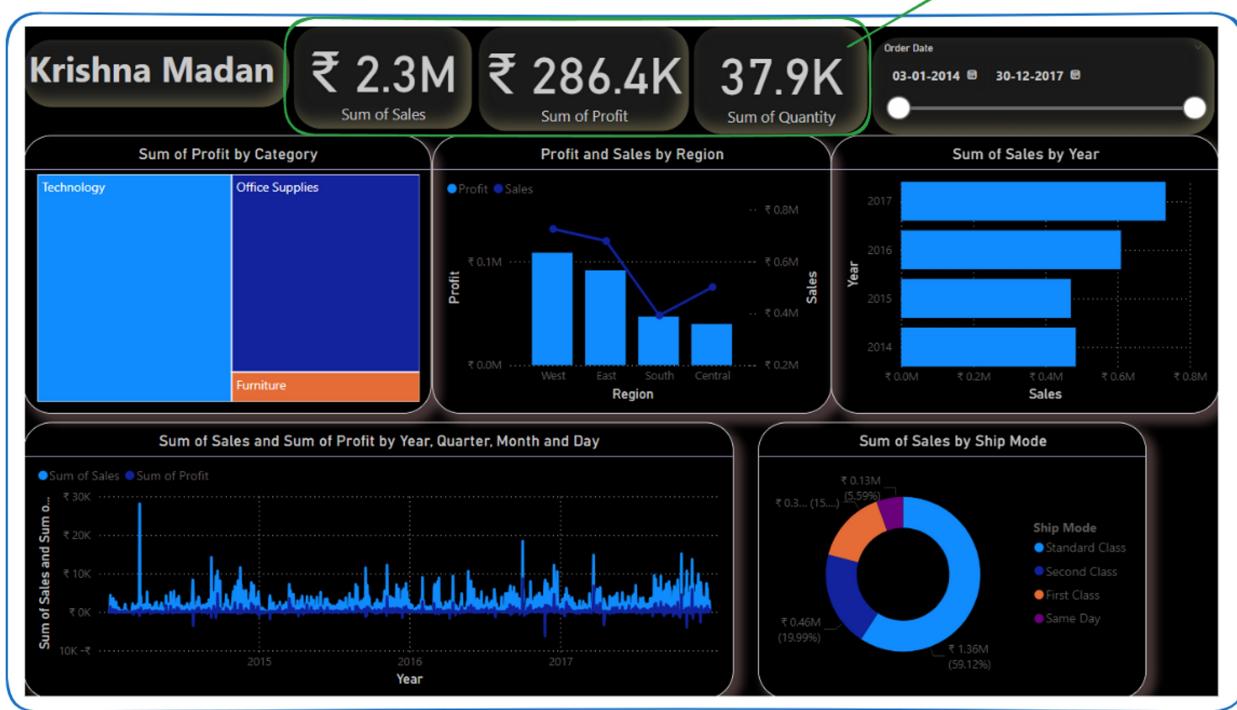
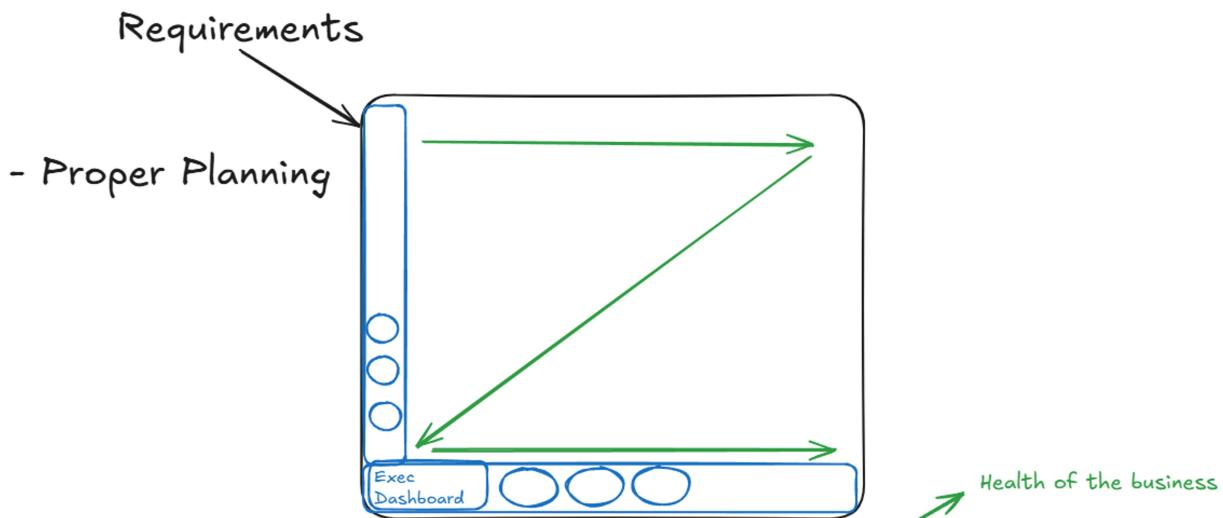


- Power BI takes the same data transformation and modeling capabilities and adds powerful visualization and publishing tools
- Transitioning is easy; you can import an entire data model directly from Excel!

→ What does Analyst Do?

- Major Role on the Growth of the Business.
- **Dashboard / Reports** for the End the Users.

[Analyst, Manager, Executive/Investor, General Public].

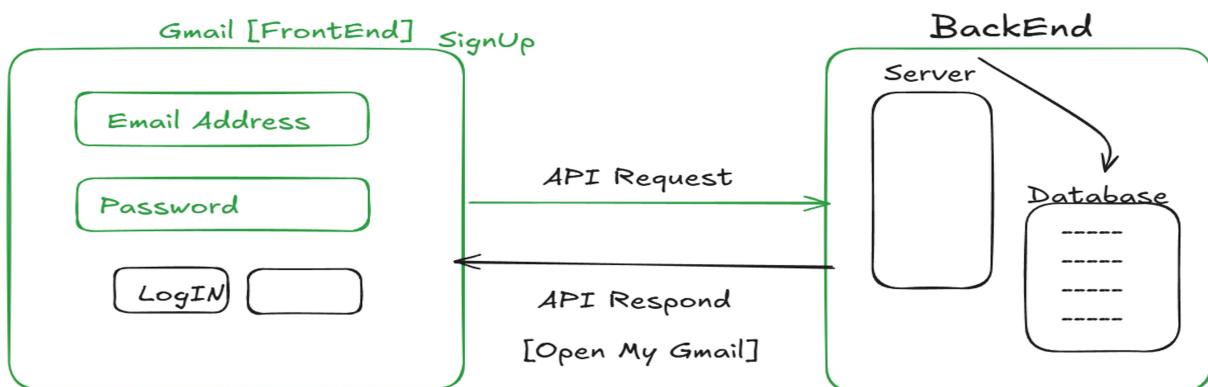
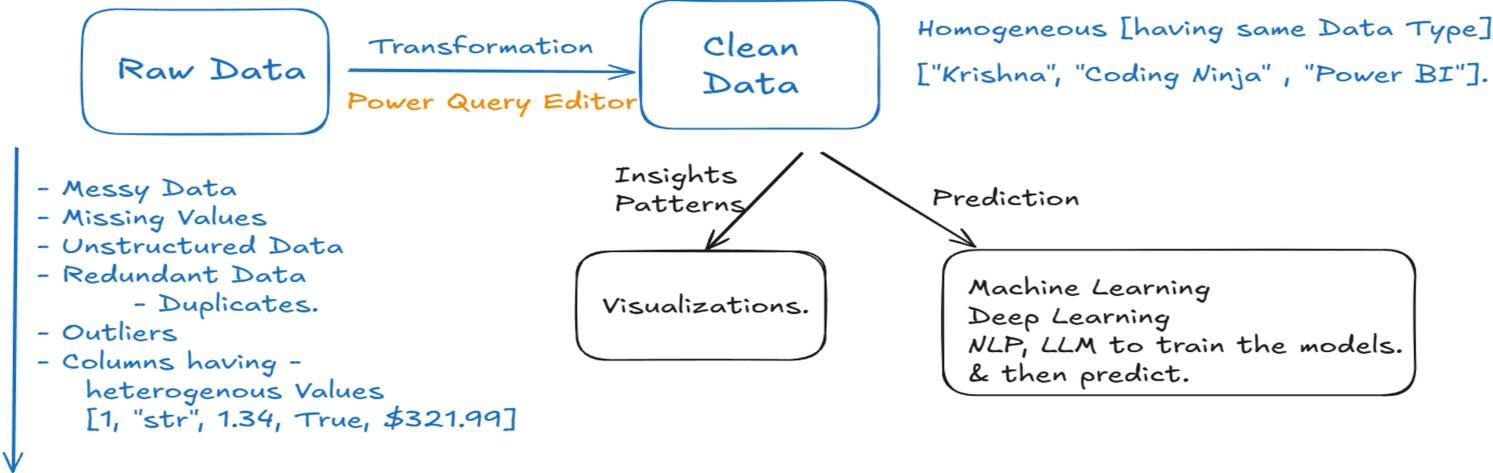


→ Money Ball - Netflix

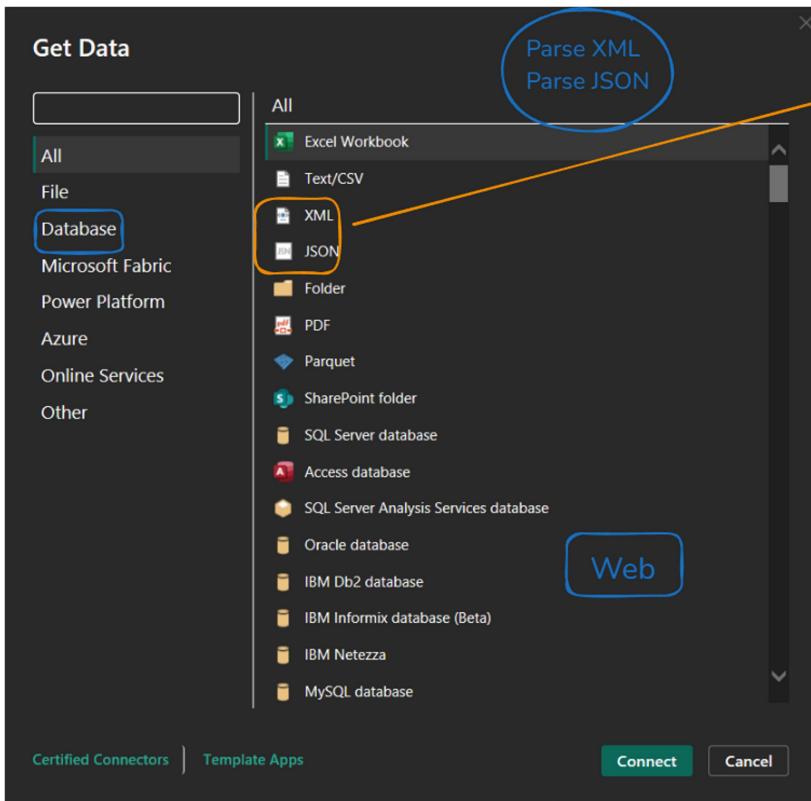
→ IPL Auction - Importance of an Analyst in Mega Auction.

→ Shark Tank - Financial Terms. [KPI / Metrices]

Learning a Tool
is an Easiest Part.
- Analytical Mindset.



↗ Power BI is highly recommended - Hiring.

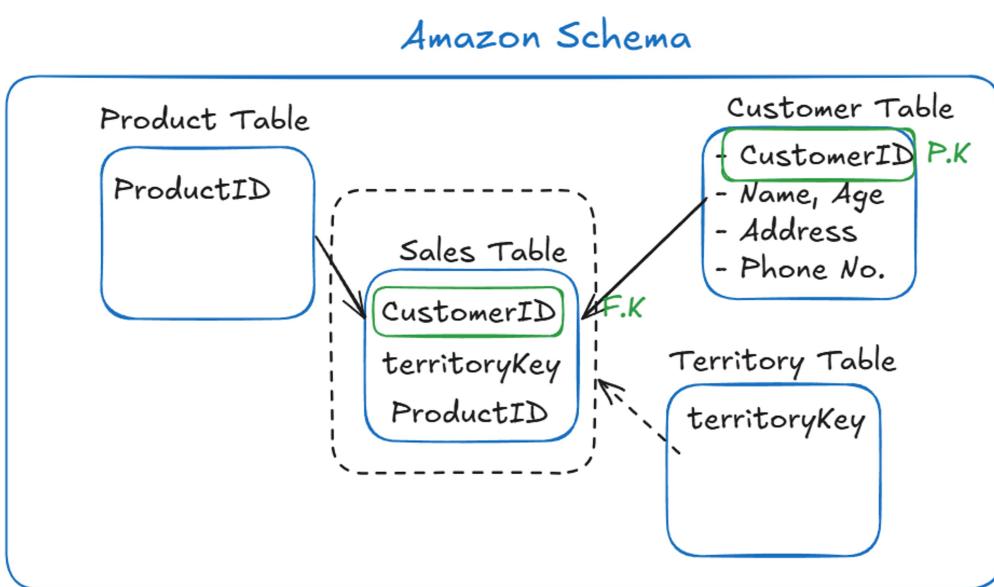


When you scrap the file from the internet.

{
Key : Value
"Krishna Madan" : "Instructor at Coding Ninja"
}

Dictionary

word : "Meanings"
Key : Values



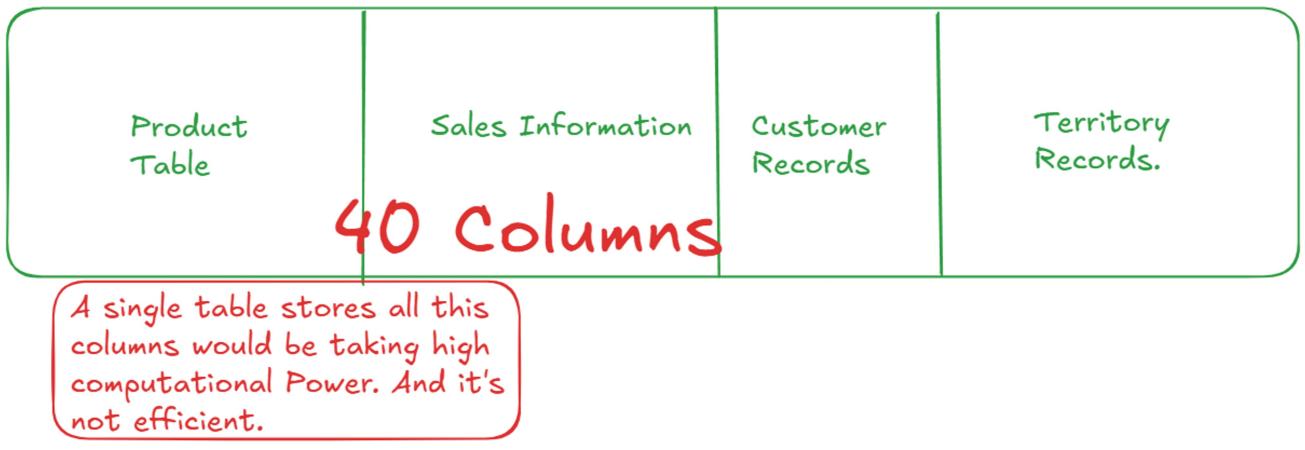
Primary Key - NOT NULL
- Unique

Foreign Key - It has lot of Duplicate values.
And its being used to join 2 Tables.

Why we have to join the table?

Databases - RDBMS - [Relational Database Management System]

Traditional Method



Microsoft Power BI Desktop

Microsoft Power BI Desktop is built for the analyst. It combines state-of-the-art interactive visualizations, with industry-leading data query and modeling built-in. Create and publish your reports to Power BI. Power BI Desktop helps you empower others with timely critical insights, anytime, anywhere.

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