

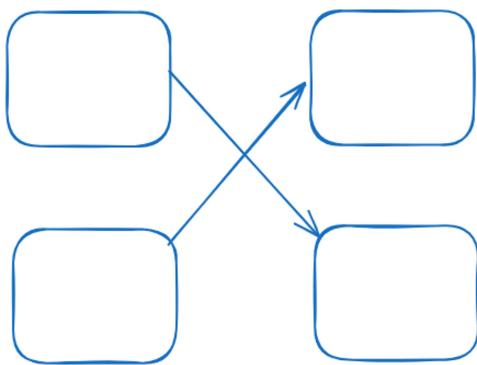
## Power BI - Workflow - Lecture 2

### Power BI - Workflow.....

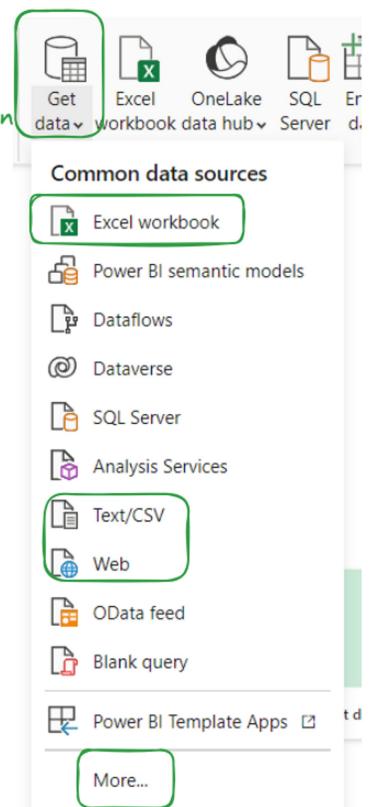
Step1 : Loading the data to power BI.

Step 2 : Power Query Editor - Backend of Power BI - Transformation

Step3 : Data Modelling :



Build a relationship using primary key & foreign Key



Step4 : DAX for complex Calculation : [Formula & Function to do some calculation] .

Revenue

Profit

Total orders

Weekend Orders

Step5 : Dashboard Making ----- Report View

Image



# 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.



Microsoft Power BI

## 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..

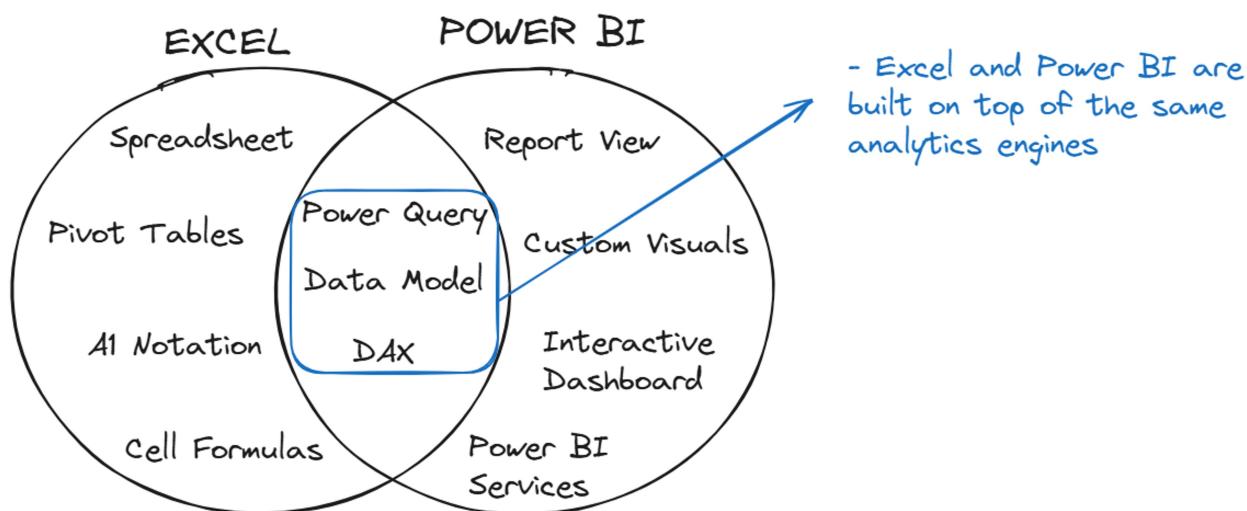
## 4. Real-time Data:

- 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!

## Power BI Desktop Installation

### 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.

Important! Selecting a language below will dynamically change the complete page content to that language.

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English

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# Power BI Work Flow :

Data is loaded & transformed in the Power Query Editor

Queries [1] Amazon Orders

Table.TransformColumnTypes(\*"Change Type with Locale", {("Row ID", Int64.Type), {"Portal Cont", Int64.Type}, {"Sales", Currency.Type}})

Query Settings

PROPERTIES

Name: Amazon Orders

All Properties

APPLIED STEPS

Source  
Promoted Headers  
Changed Type with Locale  
Changed Type with Locale!

Data models are configured in the Model View

Power Query Editor - Backend

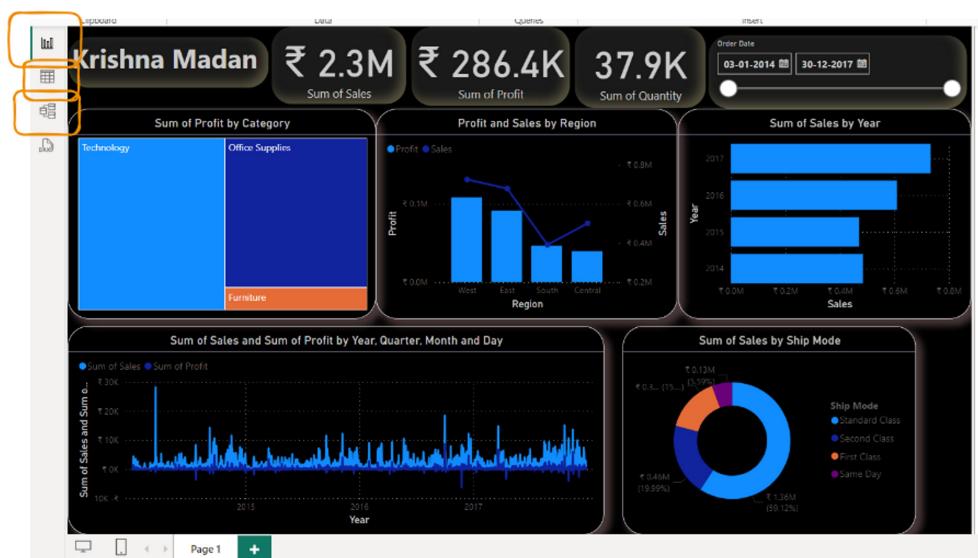


Table features & calculations are added in the Data View

Visuals & reports are designed in the Report View

Front End

Power Query Editor - Backend

Transform our data

Raw Data --> Clean

Go to file Add file <> Code

Local Codespaces

Clone

HTTPS SSH GitHub CLI

<https://github.com/KrishnaMentor/DM1-PowerBI.git>

Clone using the web URL.

Open with GitHub Desktop

Download ZIP

Once it is download locally into your machine. Then bring folder out of zip file.