

Data Analytics Project

4. Tools for Data Analysis



Aagam Deolasi



1

TOOLS for Data Analysis

Some of the various *tools used for data analysis* are as below:

1. **MS Excel** - Versatile Data Analysis Tool
2. **SQL** - Database Query Language
3. **Tableau** - Interactive Data Visualization Tool



Aagam Deolasi

Excel - What, Why & Where

1. **WHAT** (Meaning):

Excel is a *powerful tool* suitable *for small datasets and quick data analysis.*

2. **WHY** (Importance):

It is **powerful and very popular** for small-scale data analysis, calculations, data summaries, and data visualizations.

3. **WHERE** (Applications):

- a. Data Cleaning, Formatting & Aggregation
- b. Data Calculations, Data Sorting & Filtering.
- c. Data Visualization with Graphs & Charts.
- d. Summarizing & Analyzing Data (Pivots)



SQL - What, Why & Where

1. **WHAT** (Meaning):

SQL is the Language used *to efficiently retrieve, manipulate, & analyze structured data in relational databases* for informed decision-making.

2. **WHY** (Importance):

SQL is essential for managing relational databases & processing structured data in big data systems.

3. **WHERE** (Applications):

- a. MySQL Servers.
- b. Oracle Database Systems.
- c. Microsoft SQL Servers.



TABLEAU - What, Why & Where

1. **WHAT** (Meaning):

Tableau is one of the most used data analytics and visualization tools on the market.

2. **WHY** (Importance):

Tableau is the market leader due to the depth & quality of its data visualizations. It can extract & combine data from multiple sources. It can also access large data storage locations, known as data warehouses, along with cloud-based data repositories.

3. **WHERE** (Applications):

a. ETL Process for Data & Data Visualization.



THANK YOU!!! FOR YOUR SUPPORT! For Now...

Keep Learning, Keep Sharing & Keep Following
Aagam Deolasi.



Aagam Deolasi

