

# Introduction of MySQL



**By Amit Kumar**

# Video-1

# Topics to cover:







- What is a Database?
- What is DBMS?
- What is RDBMS?
- What is MySQL?
- SQL Vs MySQL
- MySQL Workbench
- Why I choose MySQL?

# # What is a Database ?

A database is a structured collection of data that allows efficient storage and retrieval of information.

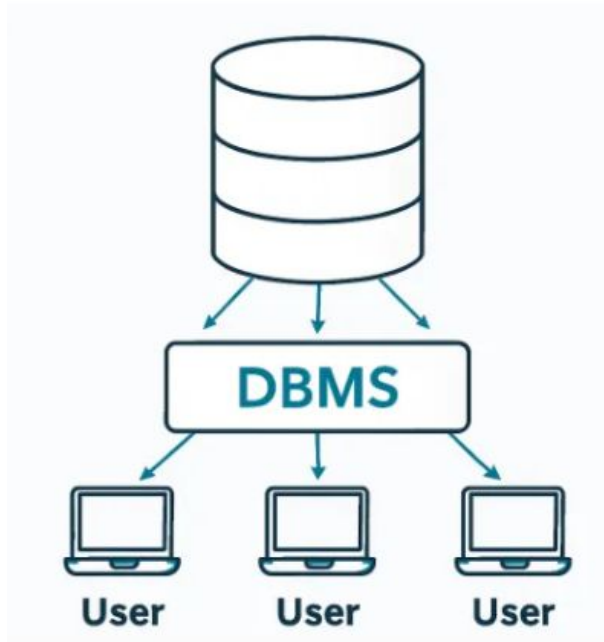
Database is a system that allow users to store and organise data.

## 🎓 Example of database : Student data

 StudentID	 Name	 Age	 Grade	 Email	 City
1001	Aditi Sharma	16	10th	aditi.sharma@email.com	New Delhi
1002	Rohan Mehta	17	11th	rohan.mehta@email.com	Mumbai
1003	Sneha Verma	15	9th	sneha.verma@email.com	Bengaluru
1004	Arjun Kapoor	18	12th	arjun.kapoor@email.com	Hyderabad
1005	Priya Nair	16	10th	priya.nair@email.com	Chennai

# # DBMS

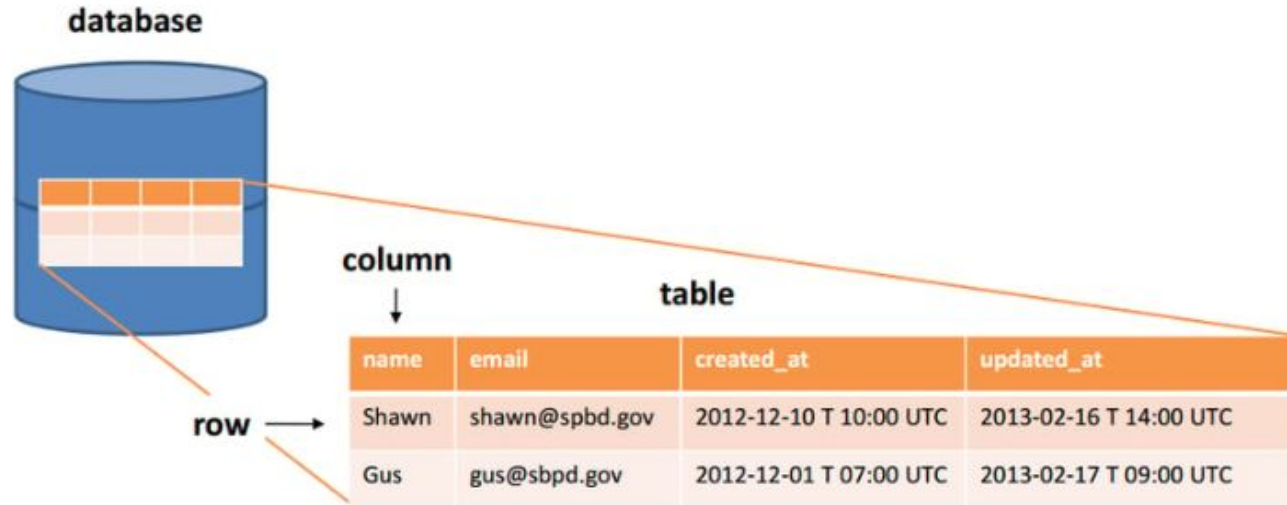
Database is managed by a Database Management System (DBMS), which provides tools to access, modify, and manage data efficiently.



# # What is RDBMS ?

RDBMS stands for Relational Database Management System — a type of DBMS where data is stored in tables.

- Each table consists of rows (records) and columns (fields).
- Tables can be linked using keys (like primary and foreign keys), allowing relationships between different datasets.



# Example of DBMS:



## # What is SQL?

SQL is Structured Query Language - used to store, manipulate and retrieve data from RDBMS.

**It is used to perform CRUD operations:**

- Create
- Read
- Update
- Delete

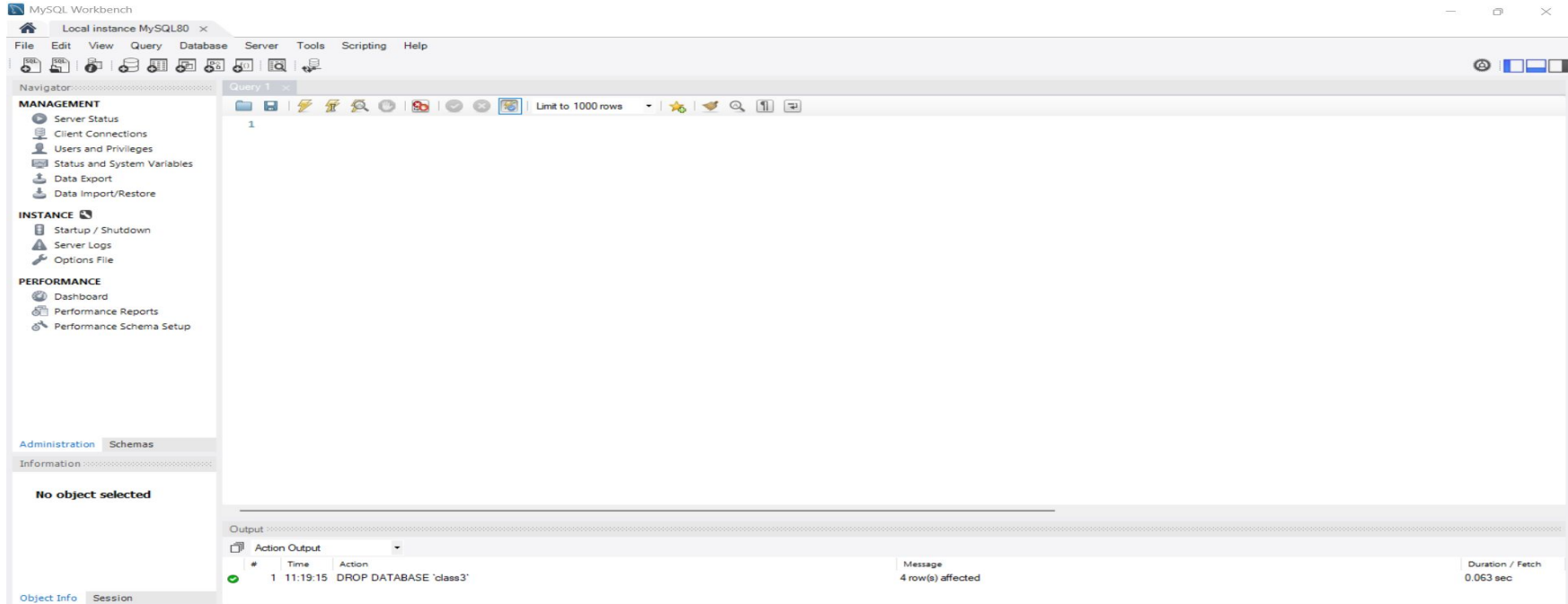
## # SQL Vs MySQL ?

**SQL** is Structured Query Language - It is not a database, it is a language used to interact with database.

**MySQL** is a RDBMS which uses SQL to talk with database.

# # MySQL Workbench?

It is an IDE(integrated development environment) kind of a UI(user interface) or a graphical tool used for managing and working with MySQL databases.



# # Why I choose MySQL?

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