

Episode 1: SQL [Structured Query Language]

- Database: Organize the collection of data in the form of **tables**.
- Tables: Rows and Columns [Excel]
- Types of Databases:
 - Relational Database: Stored in the form of rows and columns in a structured format, have relationships among the various tables.
 - **MySQL**
 - SQL Server
 - PostgreSQL and many more
 - NoSQL Database: Stored in the form of key-value pairs, Documents, Graph
 - HBase
 - MongoDB
 - Cassandra and many more

Datatypes of SQL:

- INT – numeric values
- Varchar – string values

Practical Demonstration: GoormIDE Platform[Cloud based platform], MySQL Workbench

1. **SHOW** databases: to display all the available databases on the platform
2. **CREATE DATABASE** techforallwithpriya: create a new database
3. **USE** techforallwithpriya: use the specific database
4. **SELECT database()**: to check which database you are currently working upon
5. **CRUD Operations**
 - a. **Create** – a new table inside the database

CREATE TABLE employee(

FirstName varchar(20),

LastName varchar(20),

Age int,

Salary int,

Location varchar(20))

- **SHOW** tables
- **DESC** employee
 - b. **Read** – read the data available inside the table
 - c. **Update** – update the data inside the table
 - d. **Delete** – delete the instance