**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**
   1. **Create –** anew table inside the database

CREATE TABLE employee(

FirstName varchar(20),

LastName varchar(20),

Age int,

Salary int,

Location varchar(20))

* **SHOW** tables
* **DESC** employee
  1. **Read –** read the data available inside the table
  2. **Update –** update the data inside the table
  3. **Delete –** delete the instance