***ISHITA PASALKAR’S DAY 12 ASSIGNMENT WEB DEVELOPMENT INTERNSHIP***

**1. What is SQL?**

**SQL (Structured Query Language)** is a standard programming language used to manage and manipulate relational databases. It allows developers to perform tasks like storing, retrieving, updating, and deleting data from databases.

**Purpose in Web Development:**

In web development, SQL is used to interact with the database that stores the website's or web application's data—such as user accounts, products, orders, or content. It is essential for backend development where the application needs to retrieve or manipulate data dynamically based on user input or application logic.

**2. Basic SQL Commands and Examples**

**🔹 CREATE DATABASE**

**Purpose:** Creates a new database.

**Example:**

create database SchoolDB;

**🔹 CREATE TABLE**

**Purpose:** Creates a table within a database with specified columns and data types.

**Example:**

create table Students (

ID int primary key,

FirstName varchar(50),

LastName varchar(50),

Age int,

Grade varchar(5)

);

**🔹 INSERT INTO**

**Purpose:** Adds new data (records) into a table.

**Example:**

insert into Students (StudentID, FirstName, LastName, Age, Grade)

values (1, 'John', 'Doe', 16, '10th');

**🔹 SELECT**

**Purpose:** Retrieves data from a table.

**Example:**

select \* from Students;

This retrieves all records and columns from the **Students** table.

Or to retrieve only specific columns:

select FirstName, LastName from Students;

**🔹 UPDATE**

**Purpose:** Modifies existing data in the table.

**Example:**

update Students

set Age = 17

where StudentID = 1;

This updates the age of the student with **StudentID = 1**.

**🔹 DELETE**

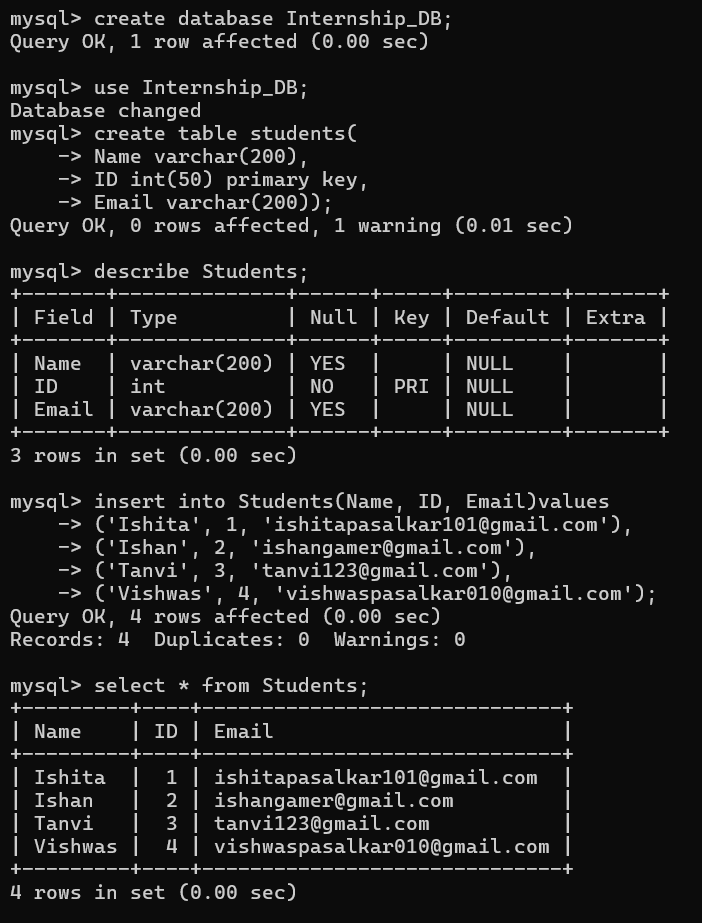
**Purpose:** Removes data (records) from the table.

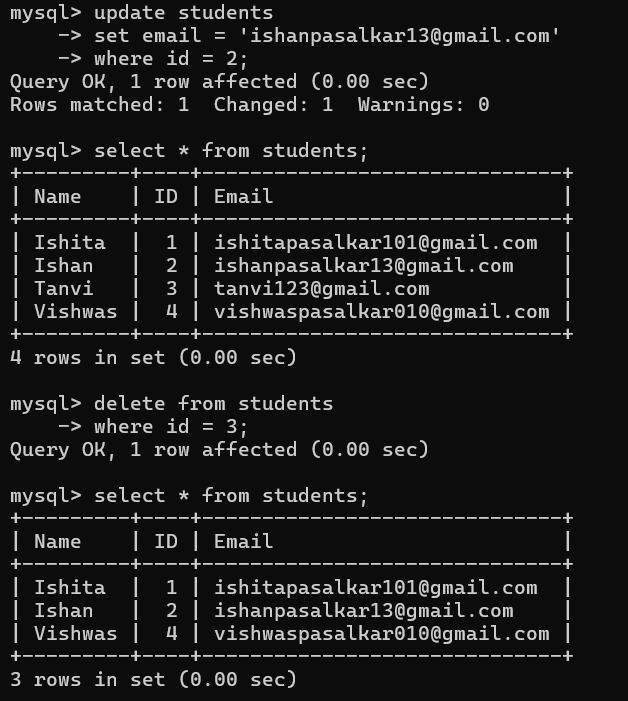
**Example:**

delete from Students

where StudentID = 1;

This deletes the student whose **StudentID** is 1.

**MySQL Code: ****

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