**SQL Server LAB Activity -1**

**Objective:**

In this lab activity, you will perform tasks related to creating a database, using it, and eventually deleting it. The lab will help you understand the fundamental SQL Server operations.

**Lab Environment:** SQL Server Management Studio (SSMS) or any SQL client connected to your SQL Server instance.

**Task 1: Create a Database**

1. Open SSMS and connect to your SQL Server instance.
2. Create a new database named "CompanyDB."

**Task 2: Create and Use Tables**

1. Use the "CompanyDB" to create the following table:

Table Name: Employees

Columns:

* EmployeeID (integer, primary key)
* FirstName (nvarchar(50), not null)
* LastName (nvarchar(50), not null)
* Department (nvarchar(50))
* Salary (decimal(10, 2))

1. Insert at least 3 sample records into the "Employees" table.
2. Retrieve all records from the "Employees" table and display the results.

**Task 3: Update and Delete Data**

1. Update the "Salary" of an employee with EmployeeID 1 to 50000.
2. Delete the record of an employee with EmployeeID 2 from the "Employees" table.

**Task 4: Drop the Database**

1. Drop (delete) the "CompanyDB" database.

**Answer KEY:**

--Task 1: Create a Database

CREATE DATABASE CompanyDB;

GO

-- Task 2: Create and Use Tables

USE CompanyDB;

GO

CREATE TABLE Employees (

EmployeeID INT PRIMARY KEY,

FirstName NVARCHAR(50) NOT NULL,

LastName NVARCHAR(50) NOT NULL,

Department NVARCHAR(50),

Salary DECIMAL(10, 2)

);

GO

INSERT INTO Employees (EmployeeID, FirstName, LastName, Department, Salary)

VALUES (1, 'John', 'Doe', 'HR', 45000),

(2, 'Jane', 'Smith', 'IT', 55000),

(3, 'Michael', 'Johnson', 'Finance', 60000);

GO

-----Task 3: Update and Delete Data----

-- Update Salary of Employee with EmployeeID 1

UPDATE Employees

SET Salary = 50000

WHERE EmployeeID = 1;

GO

-- Delete Employee with EmployeeID 2

DELETE FROM Employees

WHERE EmployeeID = 2;

---- Task 4: Drop the Database-------

-- Switch to master database

USE master;

-- Drop (Delete) the CompanyDB database

DROP DATABASE CompanyDB;