**CODTECH INTERNSHIP TASK - 4: DATABASE BACKUP AND RECOVERY**

**Objective**

1. Demonstrate how to back up a database.

2. Restore it in case of failure.

3. Submit backup and recovery scripts with documentation.

**Step-by-Step: SQL Server (SSMS) Implementation**

**Step 1: Create a Sample Database**

CREATE DATABASE CodTechDB;

GO

USE CodTechDB;

GO

CREATE TABLE Employees (

EmpID INT PRIMARY KEY,

EmpName VARCHAR(50),

Department VARCHAR(50),

Salary INT );

INSERT INTO Employees VALUES

(1, 'Amit Kumar', 'IT', 55000),

(2, 'Sneha Rao', 'HR', 48000),

(3, 'Vikram Singh', 'Finance', 60000);

**Step 2: Full Backup Script**

BACKUP DATABASE CodTechDB

TO DISK = 'C:\Backup\CodTechDB\_Full.bak'

WITH FORMAT,

MEDIANAME = 'CodTechBackup',

NAME = 'Full Backup of CodTechDB';

**Step 3: Simulate Failure (Optional)**

DROP DATABASE CodTechDB;

**Step 4: Restore Database from Backup**

RESTORE DATABASE CodTechDB

FROM DISK = 'C:\Backup\CodTechDB\_Full.bak'

WITH FILE = 1,

NOUNLOAD, REPLACE,

STATS = 5;

**Documentation Sample**

Backup Summary:-

Database: CodTechDB-

Backup Location: C:\Backup\CodTechDB\_Full.bak-

Type: Full Backup

**Restore Summary:**

- Dropped DB using DROP DATABASE

-Restored using .bak file

- Ensured data recovery