**CLASS TASK -1**

CREATE DATABASE StudentRecords;

USE master;

--

ALTER DATABASE StudentRecords MODIFY NAME = UniversityRecords;

--

ALTER DATABASE UniversityRecords SET SINGLE\_USER WITH ROLLBACK IMMEDIATE;

DROP DATABASE UniversityRecords;

--

CREATE DATABASE StudentRecords;

USE StudentRecords;

CREATE TABLE Students (

StudentID INT PRIMARY KEY,

Name VARCHAR(100),

Age INT,

Gender CHAR(1),

Department VARCHAR(50)

);

--

ALTER TABLE Students

ADD Email VARCHAR(100);

--

EXEC sp\_rename 'Students', 'UniversityStudents';

--

DROP TABLE UniversityStudents;

--

CREATE TABLE Students (

StudentID INT PRIMARY KEY,

Name VARCHAR(100),

Age INT,

Gender CHAR(1),

Department VARCHAR(50),

Email VARCHAR(100)

);

--

INSERT INTO Students (StudentID, Name, Age, Gender, Department, Email) VALUES

(1, 'Agarwal', 20, 'F', 'Computer Science', 'agarwal@gmail.com'),

(2, 'Babu', 22, 'M', 'Mechanical Engineering', 'babu@gmail.com'),

(3, 'Saathvika', 19, 'F', 'Electrical Engineering', 'saathvika@gmail.com'),

(4, 'Durai', 21, 'M', 'Computer Science', 'durai@egmail.com'),

(5, 'Vimal', 18, 'F', 'Biotechnology', 'vimal@gmail.com');

--

UPDATE Students

SET Email = 'agarwal.jamie@university.edu'

WHERE StudentID = 1;

--

DELETE FROM Students

WHERE StudentID = 2;

--

SELECT Name, Email FROM Students;

--

SELECT \* FROM Students

WHERE Age > 18;

--

SELECT \* FROM Students;

--

SELECT \* FROM Students

WHERE Department = 'Computer Science';

--

SELECT \* FROM Students WHERE Age = 20;

-- Not Equal

SELECT \* FROM Students WHERE Department <> 'Biotechnology';

-- Greater Than

SELECT \* FROM Students WHERE Age > 18;

-- Less Than

SELECT \* FROM Students WHERE Age < 21;

-- BETWEEN

SELECT \* FROM Students WHERE Age BETWEEN 18 AND 21;

-- IN

SELECT \* FROM Students WHERE Department IN ('Computer Science', 'Electrical Engineering');

-- LIKE

SELECT \* FROM Students WHERE Name LIKE 'A%';

-- IS NULL

SELECT \* FROM Students WHERE Email IS NULL;

-- AND

SELECT \* FROM Students WHERE Age > 18 AND Department = 'Computer Science';

-- OR

SELECT \* FROM Students WHERE Department = 'Biotechnology' OR Department = 'Mechanical Engineering';