CREATE TABLE students(

student\_id INT IDENTITY (1,1) PRIMARY KEY,

first\_name VARCHAR(20) NOT NULL,

last\_name VARCHAR(20) NOT NULL,

DateofBirth DATE,

Address NVARCHAR(100) NOT NULL,

Phone NVARCHAR(50) NOT NULL,

Email NVARCHAR(50) UNIQUE

);

CREATE TABLE courses(

course\_id INT IDENTITY(1,1) PRIMARY KEY,

course\_name NVARCHAR(20) NOT NULL,

Instructor\_name NVARCHAR(50) NOT NULL

);

CREATE TABLE enrolments (

enrolment\_id INT NOT NULL IDENTITY (1,1) PRIMARY KEY,

enrolment\_date NVARCHAR(100) NOT NULL,

student\_id INT,

course\_id INT,

FOREIGN KEY (student\_id) REFERENCES students(student\_id) ON DELETE CASCADE,

FOREIGN KEY(course\_id) REFERENCES courses(course\_id) ON DELETE CASCADE

);

Create Table Grades (

Grade\_id INT IDENTITY (1,1) PRIMARY KEY,

Grade NCHAR(1),

Grade\_Date DATE NOT NULL,

student\_id INT,

course\_id INT,

FOREIGN KEY (student\_id) REFERENCES students(student\_id) ON DELETE CASCADE,

FOREIGN KEY (course\_id) REFERENCES courses(course\_id) ON DELETE CASCADE

);

Create Table Attendance (

attendance\_id INT IDENTITY (1,1) PRIMARY KEY,

attendance\_date DATE NOT NULL,

Status NVARCHAR(9) CHECK (Status='Present' or Status='Absent'),

student\_id INT,

Course\_id INT,

FOREIGN KEY (student\_id) REFERENCES students(student\_id) ON DELETE CASCADE,

FOREIGN KEY(course\_id) REFERENCES courses(course\_id) ON DELETE CASCADE

);

Create Table Fees (

fee\_id INT IDENTITY (1,1) PRIMARY KEY,

Amount Decimal (10,2) NOT NULL,

Payment\_Date DATE NOT NULL,

Student\_id INT,

FOREIGN KEY (Student\_id) references Students (Student\_id) ON DELETE CASCADE

);

INSERT INTO students (first\_name, last\_name, email, address, phone, DateofBirth) VALUES

('Rahul', 'Mohanty', 'rahul.mohanty@example.com', 'Plot no-1226 BBSR', '1123456478','2000-10-15'),

('Suraj', 'Mishra', 'suraj.mishra@example.com', 'Plot no-2647 Cuttack', '2589746310','2001-02-16');

INSERT INTO courses (course\_name,instructor\_name) VALUES

('Mathematics','Simon' ),

('History', 'Ankit');

INSERT INTO enrolments (enrolment\_date, Student\_id, Course\_id) VALUES

('2015-09-08', 1, 1),

('2017-07-05', 2, 2);

INSERT INTO Grades (Grade\_Date, Student\_id, Course\_id) VALUES

('2018-08-09', 1, 1),

('2021-06-02', 2, 2);

INSERT INTO Attendance ( attendance\_date, Status, student\_id,Course\_id) VALUES

('2024-10-13', 'Present', 1,1),

('2024-10-13', 'Absent',2,2);

INSERT INTO Fees (Amount, Payment\_Date, student\_id) VALUES

(20000.00, '2004-03-12', 2),

(10000.00, '2005-05-13', 1);

SELECT \* FROM students;

SELECT \* FROM courses;

SELECT \* FROM enrolments;

SELECT \* FROM Grades;

SELECT \* FROM Attendance;

SELECT \* FROM Fees;