Student Database:

This will use one or more of the following tables:

* students
* courses
* enrollments

1. Create Tables with Constraints

CREATE TABLE students (

student\_id INT PRIMARY KEY,

name VARCHAR(50),

gender CHAR(1) CHECK (gender IN ('M', 'F')),

dob DATE,

city VARCHAR(50)

);

CREATE TABLE courses (

course\_id INT PRIMARY KEY,

course\_name VARCHAR(100),

fee DECIMAL(8,2)

);

CREATE TABLE enrollments (

enroll\_id INT PRIMARY KEY AUTO\_INCREMENT,

student\_id INT,

course\_id INT,

enroll\_date DATE,

FOREIGN KEY (student\_id) REFERENCES students(student\_id),

FOREIGN KEY (course\_id) REFERENCES courses(course\_id)

);

### **2. Insert Some Sample Data**

INSERT INTO students VALUES

(1, 'Anjali', 'F', '2002-05-17', 'Delhi'),

(2, 'Ravi', 'M', '2001-11-23', 'Mumbai'),

(3, 'Neha', 'F', '2003-08-10', 'Delhi'),

(4, 'Arjun', 'M', '2002-01-01', 'Chennai');

INSERT INTO courses VALUES

(101, 'Python Basics', 3000),

(102, 'Data Science', 5000),

(103, 'SQL Advanced', 4000);

INSERT INTO enrollments(student\_id, course\_id, enroll\_date) VALUES

(1, 101, '2023-01-15'),

(2, 101, '2023-01-20'),

(2, 103, '2023-02-10'),

(3, 102, '2023-02-25');