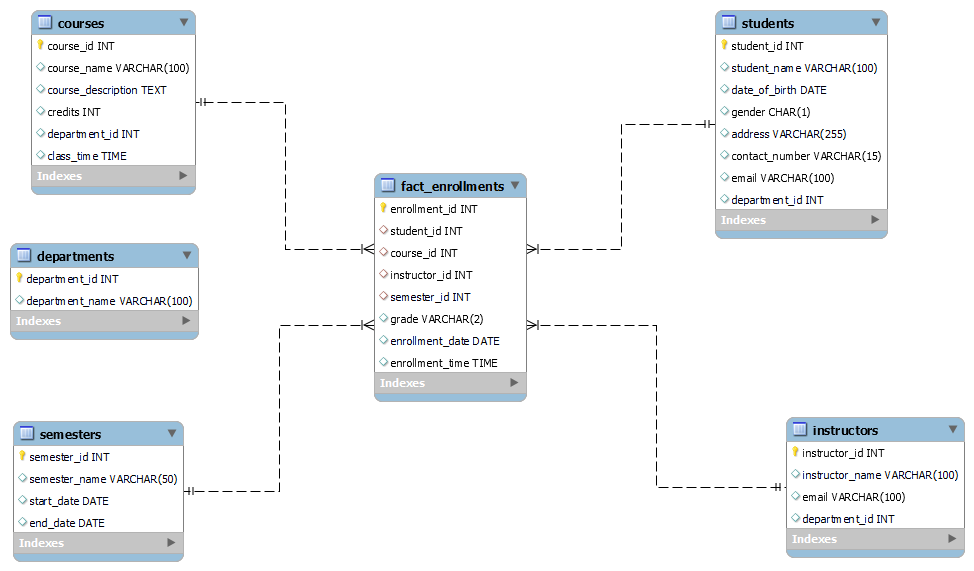
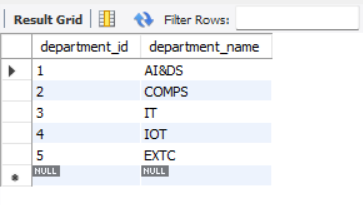
**COLLEGE MANAGEMENT STAR SCHEMA**





CREATE TABLE departments (

department\_id INT PRIMARY KEY,

department\_name VARCHAR(100) NOT NULL

);

INSERT INTO departments (department\_id, department\_name) VALUES

(1, 'AI&DS'), (2, 'COMPS'), (3, 'IT'),(4, 'IOT'), (5, 'EXTC');

SELECT \* FROM departments;

CREATE TABLE students ( student\_id INT PRIMARY KEY, student\_name VARCHAR(100) NOT NULL,

date\_of\_birth DATE NOT NULL, gender CHAR(1) NOT NULL, address VARCHAR(255) NOT NULL,

contact\_number VARCHAR(15) NOT NULL, email VARCHAR(100) NOT NULL UNIQUE,

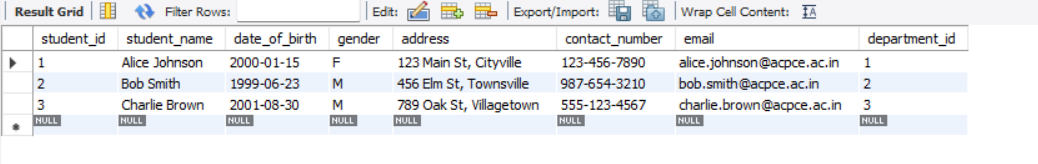
department\_id INT NOT NULL, FOREIGN KEY (department\_id) REFERENCES departments(department\_id) );

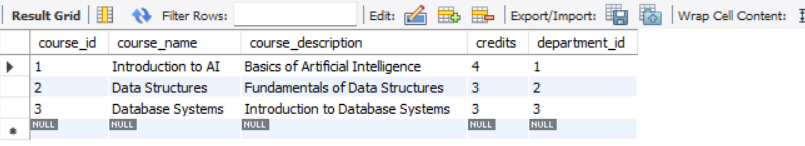
INSERT INTO students (student\_id, student\_name, date\_of\_birth, gender, address, contact\_number, email, department\_id) VALUES

(1, 'Alice Johnson', '2000-01-15', 'F', '123 Main St, Cityville', '123-456-7890', 'alice.johnson@acpce.ac.in', 1),

(2, 'Bob Smith', '1999-06-23', 'M', '456 Elm St, Townsville', '987-654-3210', 'bob.smith@acpce.ac.in', 2),

(3, 'Charlie Brown', '2001-08-30', 'M', '789 Oak St, Villagetown', '555-123-4567', 'charlie.brown@acpce.ac.in', 3);

SELECT \* FROM students;

CREATE TABLE courses (

course\_id INT PRIMARY KEY,

course\_name VARCHAR(100) NOT NULL,

course\_description TEXT NOT NULL,

credits INT NOT NULL,

department\_id INT NOT NULL,

FOREIGN KEY (department\_id) REFERENCES departments(department\_id) );

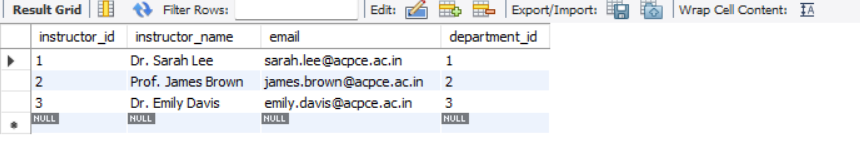
INSERT INTO courses (course\_id, course\_name, course\_description, credits, department\_id) VALUES

(1, 'Introduction to AI', 'Basics of Artificial Intelligence', 4, 1),

(2, 'Data Structures', 'Fundamentals of Data Structures', 3, 2),

(3, 'Database Systems', 'Introduction to Database Systems', 3, 3);

SELECT \* FROM courses;

CREATE TABLE instructors (

instructor\_id INT PRIMARY KEY,

instructor\_name VARCHAR(100) NOT NULL,

email VARCHAR(100) NOT NULL UNIQUE,

department\_id INT NOT NULL,

FOREIGN KEY (department\_id) REFERENCES departments(department\_id) );

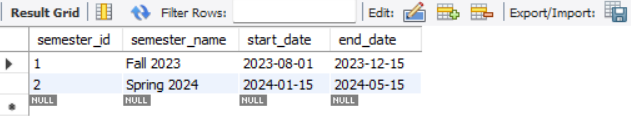
INSERT INTO instructors (instructor\_id, instructor\_name, email, department\_id) VALUES

(1, 'Dr. Sarah Lee', 'sarah.lee@acpce.ac.in', 1),

(2, 'Prof. James Brown', 'james.brown@acpce.ac.in', 2),

(3, 'Dr. Emily Davis', 'emily.davis@acpce.ac.in', 3);

SELECT \* FROM instructors;

CREATE TABLE semesters (

semester\_id INT PRIMARY KEY,

semester\_name VARCHAR(50) NOT NULL,

start\_date DATE NOT NULL,

end\_date DATE NOT NULL );

INSERT INTO semesters (semester\_id, semester\_name, start\_date, end\_date) VALUES

(1, 'Fall 2023', '2023-08-01', '2023-12-15'),

(2, 'Spring 2024', '2024-01-15', '2024-05-15');

SELECT \* FROM semesters;

CREATE TABLE fact\_enrollments (

enrollment\_id INT PRIMARY KEY,

student\_id INT NOT NULL,

course\_id INT NOT NULL,

instructor\_id INT NOT NULL,

semester\_id INT NOT NULL,

grade VARCHAR(2) NOT NULL,

enrollment\_date DATE NOT NULL,

enrollment\_time TIME NOT NULL,

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

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

FOREIGN KEY (instructor\_id) REFERENCES instructors(instructor\_id),

FOREIGN KEY (semester\_id) REFERENCES semesters(semester\_id)

);

INSERT INTO fact\_enrollments (enrollment\_id, student\_id, course\_id, instructor\_id, semester\_id, grade, enrollment\_date, enrollment\_time) VALUES

(1, 1, 1, 1, 1, 'A', '2023-08-05', '10:00:00'),

(2, 2, 2, 2, 1, 'B+', '2023-08-10', '11:00:00'),

(3, 3, 3, 3, 2, 'A-', '2024-01-20', '09:00:00');

SELECT \* FROM fact\_enrollments;

