# MySQL Dump for Course Registration System (CRS) Database

```
// Create the CRS database
CREATE DATABASE IF NOT EXISTS CRS;
USE CRS;

// Create Users Table
CREATE TABLE IF NOT EXISTS Users (
    user_id INT AUTO_INCREMENT PRIMARY KEY,
    username VARCHAR(50) NOT NULL,
    password VARCHAR(255) NOT NULL,
    role ENUM('Admin', 'Faculty', 'Student') NOT NULL
);

//Insert sample Users
INSERT INTO Users (username, password, role)
VALUES
    ('admin_lanka', 'admin@123', 'Admin'),
    ('prof_lokuge', 'lokuge123', 'Faculty'),
    ('prof_fernando', 'fernando789', 'Faculty'),
    ('lasitha_silva', 'lasitha123', 'Student'),
    ('nirmala_perera', 'nirmala123', 'Student'),
    ('kavinda_wickramasinghe', 'kavinda123', 'Student'),
    ('tissa_gunawardena', 'tissa123', 'Student'),
    ('ishara_jayasekara', 'ishara123', 'Student'),
```

```
    ('dimuth_fernando', 'dimuth123', 'Student'),
    ('manushi_kumari', 'manushi123', 'Student');

// Create Departments Table
CREATE TABLE IF NOT EXISTS Departments (
    department_id INT AUTO_INCREMENT PRIMARY KEY,
    department_name VARCHAR(100) NOT NULL
);

// Insert sample Departments
INSERT INTO Departments (department_name)
VALUES
    ('Computer Science'),
    ('Electrical Engineering'),
    ('Mechanical Engineering'),
    ('Civil Engineering'),
    ('Architecture'),
    ('Biotechnology'),
    ('Law');

//Create Courses Table
CREATE TABLE IF NOT EXISTS Courses (
    course_id VARCHAR(10) PRIMARY KEY,
    title VARCHAR(100) NOT NULL,
    credit_hours INT NOT NULL,
```

```
    department_id INT,
    prerequisites VARCHAR(10),
    max_enrollment INT NOT NULL,
    FOREIGN KEY (department_id) REFERENCES Departments(department_id)
);

// Insert sample Courses
INSERT INTO Courses (course_id, title, credit_hours, department_id, prerequisites, max_enrollment)
VALUES
    ('CS101', 'Introduction to Programming', 3, 1, NULL, 50),
    ('CS201', 'Data Structures', 4, 1, 'CS101', 40),
    ('EE101', 'Circuit Theory', 3, 2, NULL, 60),
    ('EE202', 'Digital Electronics', 4, 2, 'EE101', 45),
    ('ME101', 'Mechanics of Materials', 3, 3, NULL, 50),
    ('ME202', 'Thermodynamics', 4, 3, 'ME101', 40),
    ('CE101', 'Introduction to Civil Engineering', 3, 4, NULL, 55),
    ('CE202', 'Structural Analysis', 4, 4, 'CE101', 45),
    ('ARCH101', 'Introduction to Architecture', 3, 5, NULL, 30),
    ('ARCH202', 'Building Materials', 3, 5, 'ARCH101', 25),
    ('BIO101', 'Introduction to Biotechnology', 3, 6, NULL, 50),
    ('BIO202', 'Genetic Engineering', 4, 6, 'BIO101', 45),
    ('LAW101', 'Introduction to Law', 3, 7, NULL, 60),
    ('LAW202', 'Constitutional Law', 3, 7, 'LAW101', 40);

CREATE TABLE IF NOT EXISTS Students (
```

```
    student_id INT PRIMARY KEY,
    first_name VARCHAR(50) NOT NULL,
    last_name VARCHAR(50) NOT NULL,
    date_of_birth DATE NOT NULL,
    program_of_study VARCHAR(100) NOT NULL,
    year INT NOT NULL,
    contact_info VARCHAR(100) NOT NULL,
    );

// Insert sample Students
INSERT INTO Students (student_id, first_name, last_name, date_of_birth, program_of_study, year, contact_info)
VALUES
    (4, 'Lasitha', 'Silva', '2000-04-12', 'Computer Science', 2, 'lasitha.silva@student.lk'),
    (5, 'Nirmala', 'Perera', '2001-02-20', 'Electrical Engineering', 1, 'nirmala.perera@student.lk'),
    (6, 'Kavinda', 'Wickramasinghe', '2000-07-25', 'Mechanical Engineering', 2, 'kavinda.wickramasinghe@student.lk'),
    (7, 'Tissa', 'Gunawardena', '1999-05-10', 'Civil Engineering', 3, 'tissa.gunawardena@student.lk'),
    (8, 'Ishara', 'Jayasekara', '2001-11-15', 'Architecture', 1, 'ishara.jayasekara@student.lk'),
    (9, 'Dimuth', 'Fernando', '2000-09-08', 'Biotechnology', 2, 'dimuth.fernando@student.lk'),
    (10, 'Manushi', 'Kumari', '2001-06-18', 'Law', 1, 'manushi.kumari@student.lk'),
    (11, 'Nadeesha', 'Rajapaksha', '2000-12-03', 'Computer Science', 3, 'nadeesha.rajapaksha@student.lk'),
    (12, 'Shanika', 'Perera', '2000-04-22', 'Electrical Engineering', 3, 'shanika.perera@student.lk'),
    (13, 'Kasun', 'Fernando', '2001-01-05', 'Mechanical Engineering', 1, 'kasun.fernando@student.lk');

// Create Enrollments Table
```

```
CREATE TABLE IF NOT EXISTS Enrollments (
    enrollment_id INT AUTO_INCREMENT PRIMARY KEY,
    student_id INT,
    course_id VARCHAR(10),
    enrollment_date DATE NOT NULL,
    FOREIGN KEY (course_id) REFERENCES Courses(course_id)
);

// Insert sample Enrollments
INSERT INTO Enrollments (student_id, course_id, enrollment_date)
VALUES
    (4, 'CS101', '2025-02-01'),
    (5, 'EE101', '2025-02-02'),
    (6, 'ME101', '2025-02-03'),
    (7, 'CE101', '2025-02-04'),
    (8, 'ARCH101', '2025-02-05'),
    (9, 'BIO101', '2025-02-06'),
    (10, 'LAW101', '2025-02-07'),
    (11, 'CS101', '2025-02-08'),
    (12, 'EE101', '2025-02-09'),
    (13, 'ME101', '2025-02-10');

// Create Academic Records Table
CREATE TABLE IF NOT EXISTS Academic_Records (
    record_id INT AUTO_INCREMENT PRIMARY KEY,
```

```
    student_id INT,
    course_id VARCHAR(10),
    grade CHAR(2),
    semester VARCHAR(50),
    FOREIGN KEY (course_id) REFERENCES Courses(course_id)
);

// Insert sample Academic Records
INSERT INTO Academic_Records (student_id, course_id, grade, semester)
VALUES
    (4, 'CS101', 'A', '2025 Spring'),
    (5, 'EE101', 'B+', '2025 Spring'),
    (6, 'ME101', 'A-', '2025 Spring'),
    (7, 'CE101', 'B', '2025 Spring'),
    (8, 'ARCH101', 'A', '2025 Spring'),
    (9, 'BIO101', 'B-', '2025 Spring'),
    (10, 'LAW101', 'A', '2025 Spring'),
    (11, 'CS101', 'B+', '2025 Spring'),
    (12, 'EE101', 'A-', '2025 Spring'),
    (13, 'ME101', 'B', '2025 Spring');
```