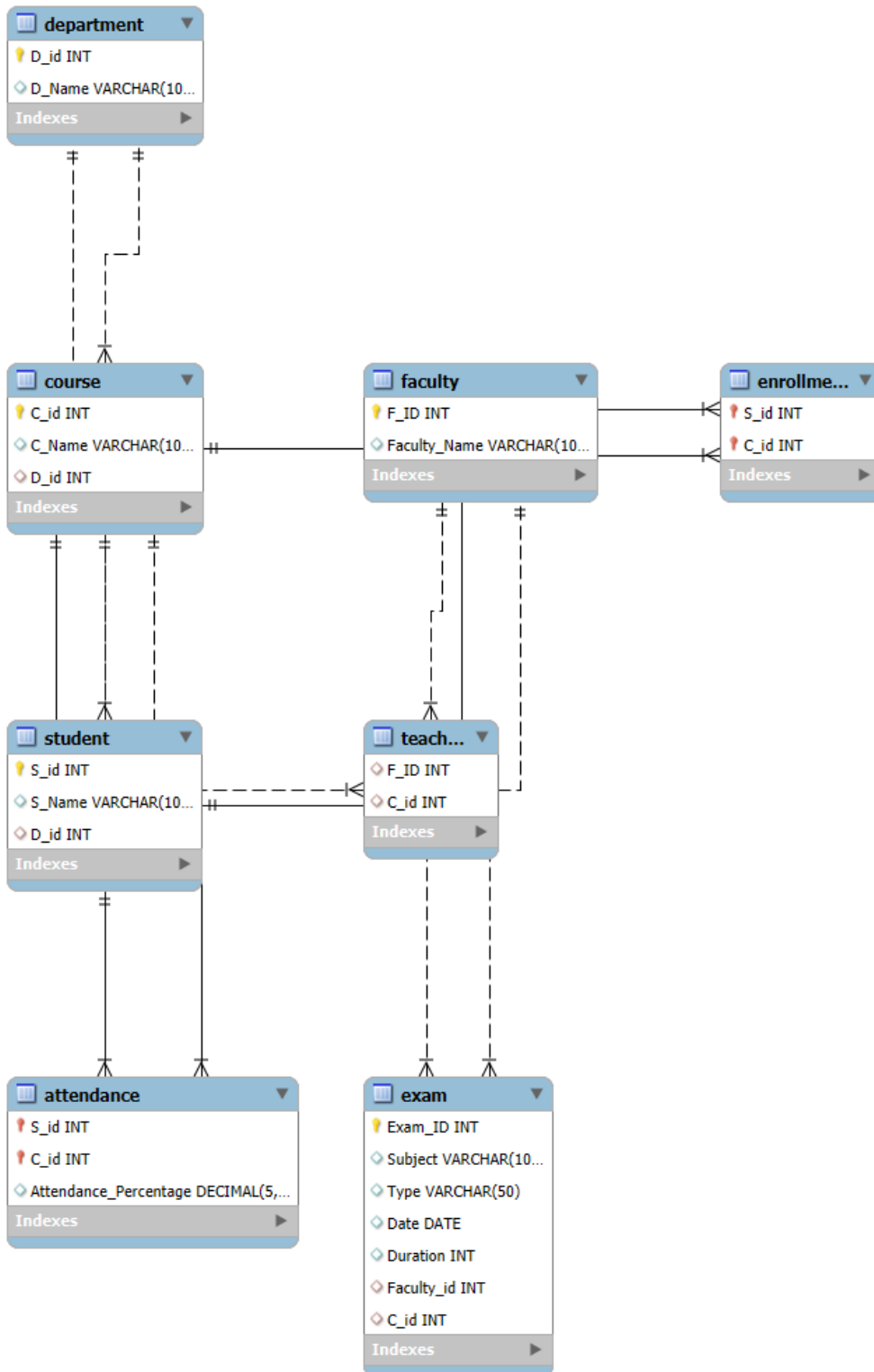


Project 2 : University Examination System



Student Table

```
CREATE TABLE Student (  
    S_id INT PRIMARY KEY,  
    S_Name VARCHAR(100),  
    D_id INT,  
    FOREIGN KEY (D_id) REFERENCES Department(D_id)  
);
```

Department Table

```
CREATE TABLE Department (  
    D_id INT PRIMARY KEY,  
    D_Name VARCHAR(100)  
);
```

Course Table

```
CREATE TABLE Course (  
    C_id INT PRIMARY KEY,  
    C_Name VARCHAR(100),  
    D_id INT,  
    FOREIGN KEY (D_id) REFERENCES Department(D_id)  
);
```

Faculty Table

```
CREATE TABLE Faculty (  
    F_ID INT PRIMARY KEY,  
    Faculty_Name VARCHAR(100)  
);
```

Faculty Teaches Course

```
CREATE TABLE Teaches (  
    F_ID INT,  
    C_id INT,  
    FOREIGN KEY (F_ID) REFERENCES Faculty(F_ID),  
    FOREIGN KEY (C_id) REFERENCES Course(C_id)  
);
```

Exam Table

```
CREATE TABLE Exam (  
    Exam_ID INT PRIMARY KEY,  
    Subject VARCHAR(100),  
    Type VARCHAR(50), -- 'Internal' or 'External'  
    Date DATE,  
    Duration INT, -- In minutes  
    Faculty_id INT,  
    C_id INT,  
    FOREIGN KEY (Faculty_id) REFERENCES Faculty(F_ID),  
    FOREIGN KEY (C_id) REFERENCES Course(C_id)  
);
```

Attendance Table

```
CREATE TABLE Attendance (  
    S_id INT,  
    C_id INT,  
    Attendance_Percentage DECIMAL(5,2),  
    PRIMARY KEY (S_id, C_id),  
    FOREIGN KEY (S_id) REFERENCES Student(S_id),  
    FOREIGN KEY (C_id) REFERENCES Course(C_id)  
);
```

OPTIONAL: Enrollment Table (Recommended)

```
CREATE TABLE Enrollment (  
    S_id INT,  
    C_id INT,  
    PRIMARY KEY (S_id, C_id),  
    FOREIGN KEY (S_id) REFERENCES Student(S_id),  
    FOREIGN KEY (C_id) REFERENCES Course(C_id)  
);
```

```
/* ===== DATA INSERTION ===== */
```

```
-- Department
```

```
INSERT INTO Department (D_id, D_Name) VALUES  
(1, 'Computer Science'),  
(2, 'Mechanical Engineering'),  
(3, 'Electrical Engineering');
```

```
-- Student
```

```
INSERT INTO Student (S_id, S_Name, D_id) VALUES  
(101, 'Ravi Kumar', 1),  
(102, 'Anita Sharma', 2),  
(103, 'Mohit Verma', 3);
```

```
-- Course
```

```
INSERT INTO Course (C_id, C_Name, D_id) VALUES  
(201, 'Data Structures', 1),  
(202, 'Thermodynamics', 2),  
(203, 'Circuit Theory', 3);
```

```
-- Faculty
```

```
INSERT INTO Faculty (F_ID, Faculty_Name) VALUES  
(301, 'Dr. Ramesh'),  
(302, 'Prof. Neha'),  
(303, 'Dr. Singh');
```

```
-- Teaches
```

```
INSERT INTO Teaches (F_ID, C_id) VALUES  
(301, 201),  
(302, 202),  
(303, 203);
```

```
-- Exam
```

```
INSERT INTO Exam (Exam_ID, Subject, Type, Date, Duration, Faculty_id, C_id) VALUES
(401, 'Data Structures', 'Internal', '2025-06-20', 90, 301, 201),
(402, 'Thermodynamics', 'External', '2025-06-22', 120, 302, 202),
(403, 'Circuit Theory', 'Internal', '2025-06-24', 60, 303, 203);
```

-- Attendance

```
INSERT INTO Attendance (S_id, C_id, Attendance_Percentage) VALUES
(101, 201, 85.50),
(102, 202, 78.25),
(103, 203, 92.00);
```

-- Enrollment

```
INSERT INTO Enrollment (S_id, C_id) VALUES
(101, 201),
(102, 202),
(103, 203);
```

