

# Codes

Create Database university ;

Use university ;

```
CREATE TABLE students (  
    student_id INT PRIMARY KEY,  
    name VARCHAR(200),  
    major VARCHAR(200),  
    enrollment_year INT,  
    email VARCHAR(100)  
);
```

```
Insert into students ( student_id , name , major , enrollment_year , email)  
values  
(1 , "Alice Johnson" , "Computer Science" , 2021 , 'alice@university.edu'),  
(2 , "Bob Smith" , "Mathematics" , 2020 , "bob@university.edu" ),  
(3 , "Carol Lee" , "Physics" , 2022 , "carol@university.edu"),  
(4 , "David Kim" , "Computer Science" , 2021 , "david@university.edu");
```

```
SELECT  
    *  
FROM  
    students
```

WHERE

major = 'Computer Science'

OR major = 'Mathematics';

CREATE TABLE Courses (

course\_id INT PRIMARY KEY,

name VARCHAR(100),

department VARCHAR(100)

);

Select \* from Courses ;

Insert into Courses ( course\_id , name , department)

values

(201 , "Algorithms" , "Computer Science"),

(202 , "Linear Algebra" , "Mathematics" ),

(203 , "Quantum Mechanics" , "Physics"),

(204 , "Database Systems" , "Computer Science"),

(205 , "Data structures and algorithms" , "Computer Science");

SELECT

\*

FROM

Courses

WHERE

department LIKE '%Computer Science';

SELECT

\*

FROM

Courses

WHERE

department LIKE '%Computer Science'

ORDER BY name ASC;

CREATE TABLE Enrollments (

enrollment\_id INT PRIMARY KEY,

student\_id INT,

course\_id INT,

Grades VARCHAR(2),

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

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

);

Insert into Enrollments

values

(1 , 1 , 201 , "A"),

(2 , 1 , 202 , "B"),

(3 , 2 , 205 , "A"),

(4 , 3 , 204 , "C"),

(5 , 4 , 203 , "A");

SELECT

\*

FROM

Enrollments

WHERE

grades BETWEEN 'A' AND "C";