CREATE DATABASE studentsDB;

USE studentsDB;

-- Create the students table

CREATE TABLE students (

student\_id INT PRIMARY KEY,

student\_name VARCHAR(50),

age INT,

course\_id INT

);

-- Insert records into the students table

INSERT INTO students (student\_id, student\_name, age, course\_id)

VALUES

(1, 'John Smith', 22, 1),

(2, 'Jane Doe', 20, 2),

(3, 'Robert Johnson', 25, 1),

(4, 'Lisa Wang', 21, 3),

(5, 'Michael Brown', 32, 2);

-- Create the courses table

CREATE TABLE courses (

course\_id INT PRIMARY KEY,

course\_name VARCHAR(50)

);

-- Insert records into the courses table

INSERT INTO courses (course\_id, course\_name)

VALUES

(1, 'Math'),

(2, 'History'),

(3, 'Science');

SELECT

students.student\_name AS Student\_Name,

courses.course\_name AS Course\_Name

FROM

students

JOIN

courses

ON

students.course\_id = courses.course\_id;

SELECT

courses.course\_name AS Course\_Name,

COUNT(students.student\_id) AS Total\_Students

FROM

students

JOIN

courses

ON

students.course\_id = courses.course\_id

GROUP BY

courses.course\_name;

SELECT

student\_name

FROM

students

WHERE

age > 21;

SELECT

courses.course\_name AS Course\_Name,

AVG(students.age) AS Average\_Age

FROM

students

JOIN

courses

ON

students.course\_id = courses.course\_id

GROUP BY

courses.course\_name;

SELECT

courses.course\_name AS Course\_Name,

COUNT(students.student\_id) AS Total\_Students

FROM

students

JOIN

courses

ON

students.course\_id = courses.course\_id

GROUP BY

courses.course\_name

ORDER BY

Total\_Students DESC

LIMIT 1;