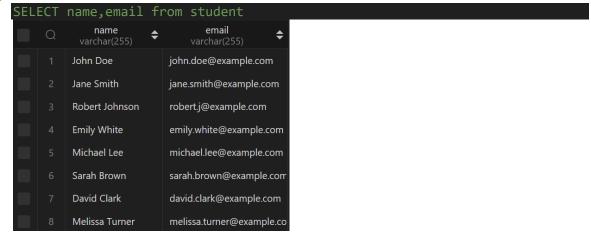
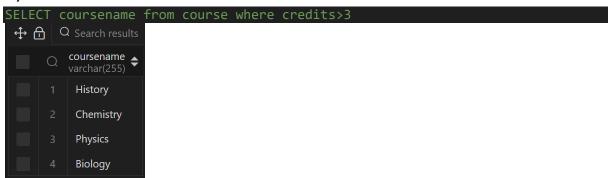
## **ASSIGNMENT 5**

## Write SQL query for these questions-

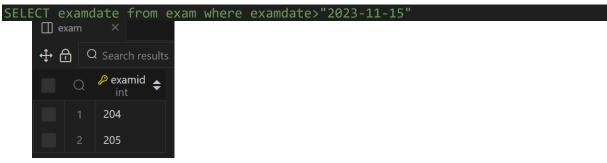
1) Retrieve the names and email addresses of all students



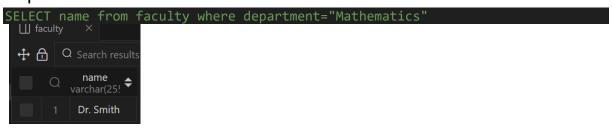
2) Find the courses that have more than three credits.



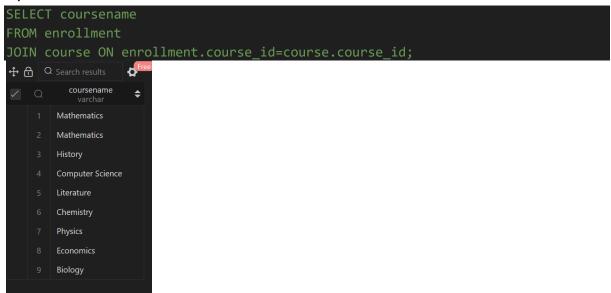
3) List the exams scheduled after November 15, 2023.



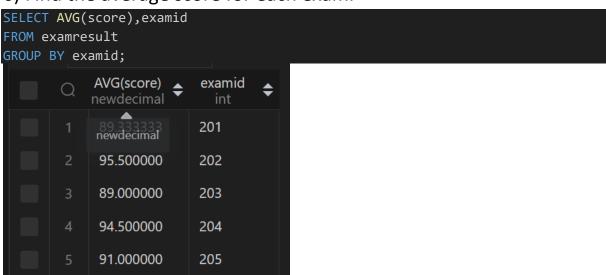
4) Get the faculty members who work in the "Mathematics" department.



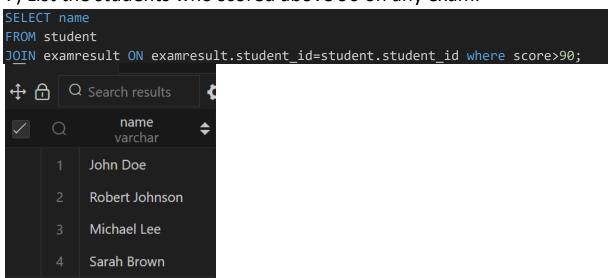
5) Retrieve the courses that each student is enrolled in.



6) Find the average score for each exam.



7) List the students who scored above 90 on any exam.



8) Retrieve the faculty members who teach multiple courses.

```
SELECT name FROM faculty WHERE (SELECT count(teaching.course_id) FROM teaching WHERE teaching.facultyid = faculty.facultyid) > 1

Result ×

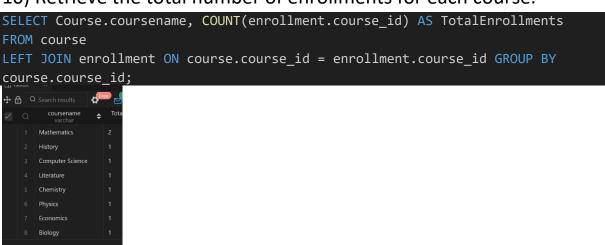
A C Search results

Name
Varchar

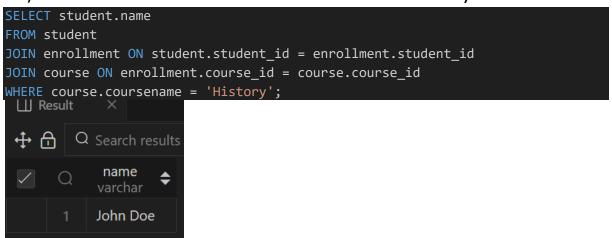
A varchar
```

9) Find the students who have not registered for any exams.

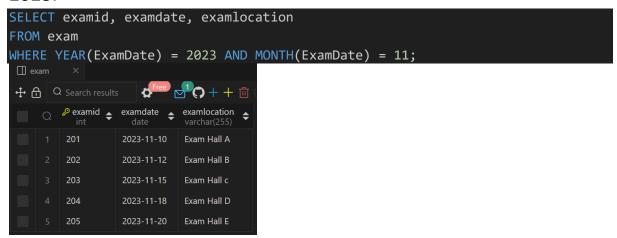
10) Retrieve the total number of enrollments for each course.



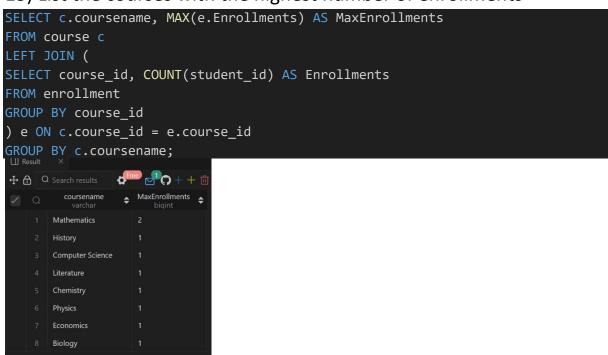
11) Find the students who are enrolled in the "History" course.



12) Retrieve the exams and their locations scheduled for November 2023.



13) List the courses with the highest number of enrollments



14) Find the average score for each student.

87.500000

7 David Clark

```
SELECT student.name, AVG(score) AS averagescore
FROM student
JOIN examresult ON student.student_id = examresult.student_id
GROUP BY student.student_id;
                1 John Doe
                  92.500000
     2 Jane Smith
                    88.000000
     3 Robert Johnson 95.500000
     4 Emily White
                    89.000000
       Michael Lee
                    94.500000
     6 Sarah Brown
                    91.000000
```

15) Retrieve the exams that have no registered students.

16) List the faculty members who have yet to teach any courses.

```
FROM faculty
LEFT JOIN teaching ON faculty.facultyid = teaching.facultyid WHERE
teaching.facultyid IS NULL;

THE Q Search results

Q name varchar
```

17) Find the students who have registered for exams in both "Mathematics" and "Computer Science" departments.

```
FROM student

JOIN enrollment ON student.student_id = enrollment.student_id JOIN course ON enrollment.course_id = course.course_id

JOIN teaching ON course.course_id = teaching.course_id

JOIN faculty ON teaching.facultyid = faculty.facultyid

WHERE faculty.department IN ('Mathematics', 'Computer Science')

GROUP BY student.student_id

HAVING COUNT(DISTINCT faculty.department) = 2;

Result ×

Q Search results

O name 
varchar
```

18) Retrieve the students who scored the highest in each exam.

```
SELECT examresult.examid, student.name, examresult.score
FROM examresult

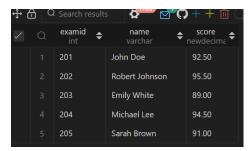
JOIN student ON examresult.student_id = student.student_id

WHERE (examresult.examid, examresult.score) IN (

SELECT examid, MAX(score)

FROM examresult

GROUP BY examid);
```



19) Find the courses that no student has enrolled in.

```
SELECT coursename FROM course

LEFT JOIN enrollment ON course.course_id = enrollment.course_id

WHERE enrollment.student_id IS NULL;

Result ×

Coursename course.
```

20) Retrieve the faculty members who teach courses with an average enrollment count above 10.

