

University Database – JOIN Queries

1. Display the department ID, name, and the full name of the faculty managing it.

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure, including tables like department and faculty. The central query window contains the following SQL code:

```
SELECT  
d.DID,  
d.Deptname,  
f.FFname AS FacultyName  
FROM department d  
JOIN faculty f  
ON d.DID = f.DepID;
```

The Results pane at the bottom displays the output of the query, showing 5 rows of data:

DID	Deptname	FacultyName
1	Computer Science	Dr. Ali Mohammed
2	Information Technology	Dr. Sara Ahmed
3	Engineering	Eng. Hassan Salah
4	Business Administration	Dr. Mona Khafan
5	Mathematics	Dr. Nasser Said

2. Display each program's name and the name of the department offering it.

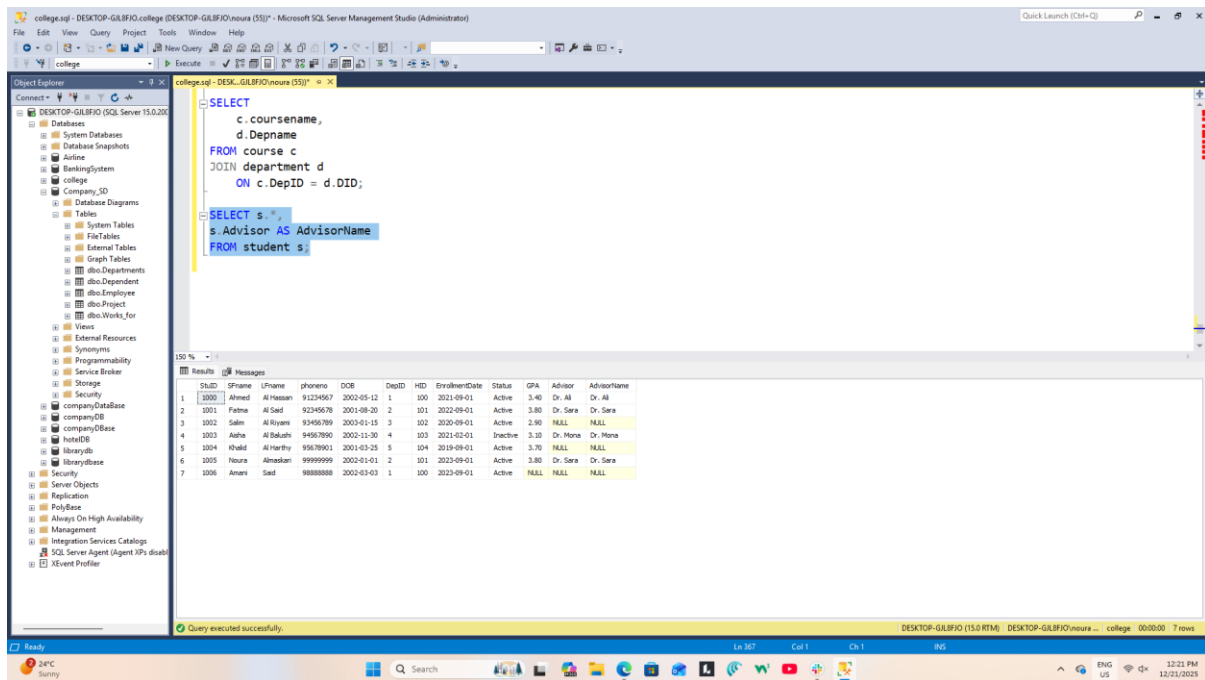
The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure. The central query window contains two SQL queries. The first query is identical to the one in the previous screenshot. The second query is:

```
SELECT  
c.coursename,  
d.Deptname  
FROM course c  
JOIN department d  
ON c.DepID = d.DID;
```

The Results pane at the bottom displays the output of the second query, showing 5 rows of data:

coursename	Deptname
Database Systems	Computer Science
Networking Basics	Information Technology
Electrical Circuits	Engineering
Principles of Management	Business Administration
Linear Algebra	Mathematics

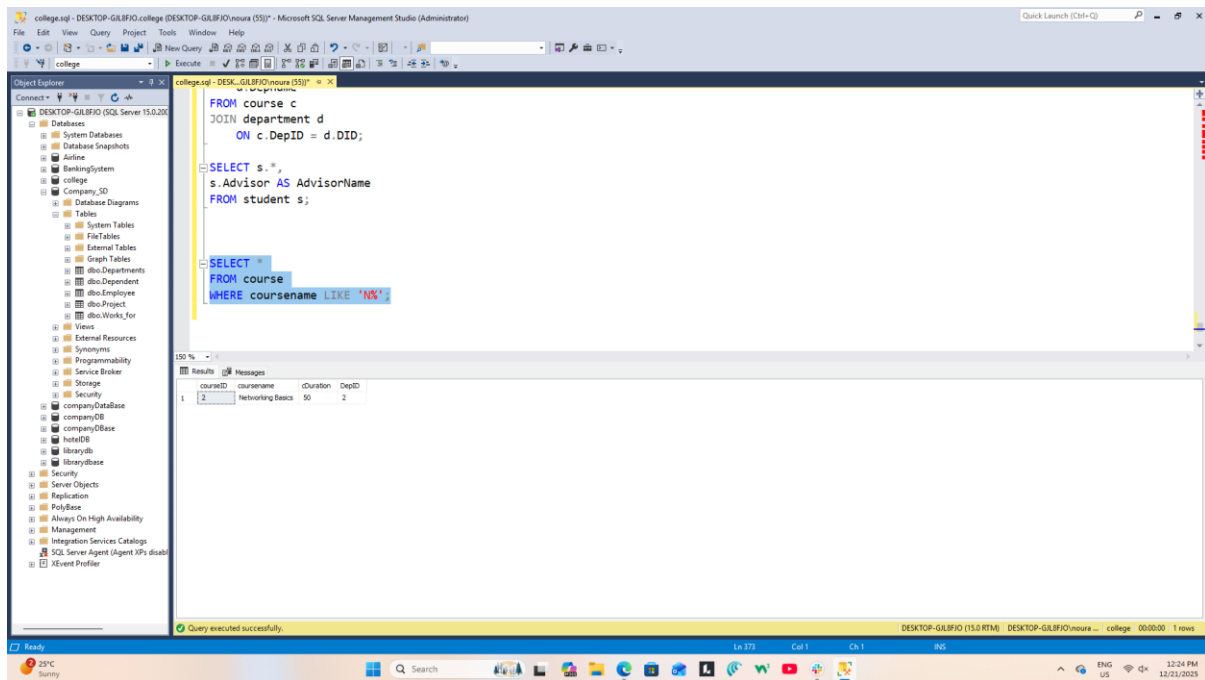
3. Display the full student data and the full name of their faculty advisor.



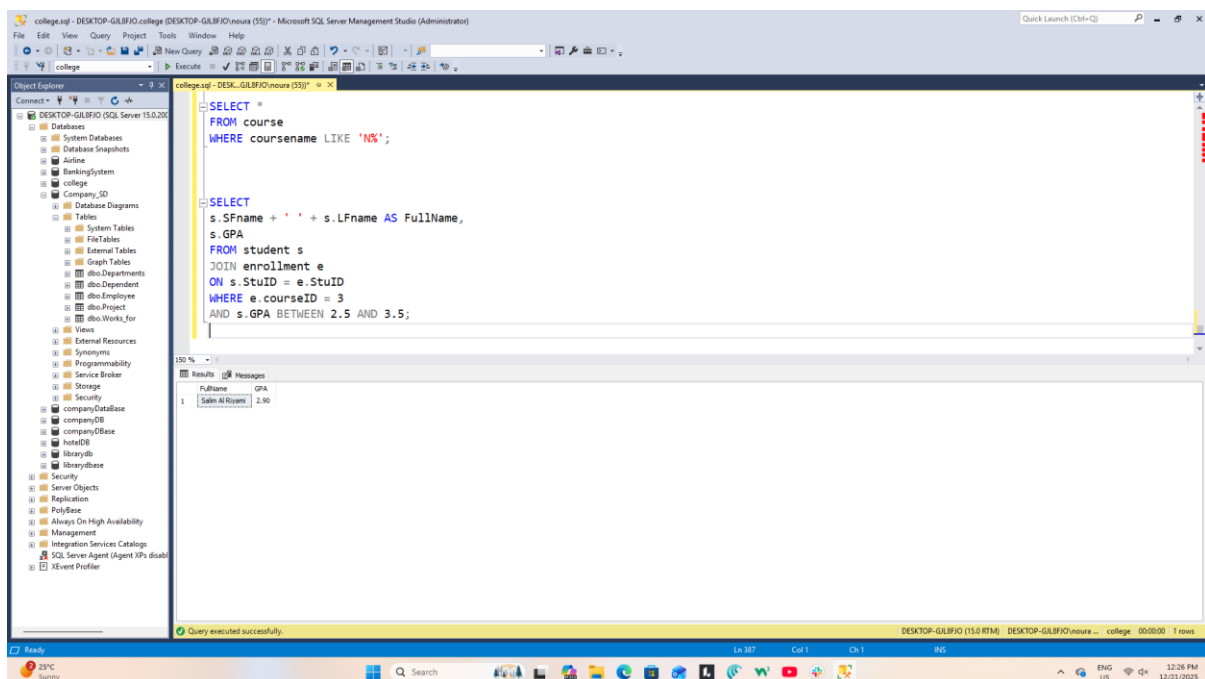
4. Display class IDs, course titles, and room locations for classes in buildings 'A' or 'B'.

This query cannot be implemented because the database does not contain class or building information.

5. Display full data about courses whose titles start with "N".



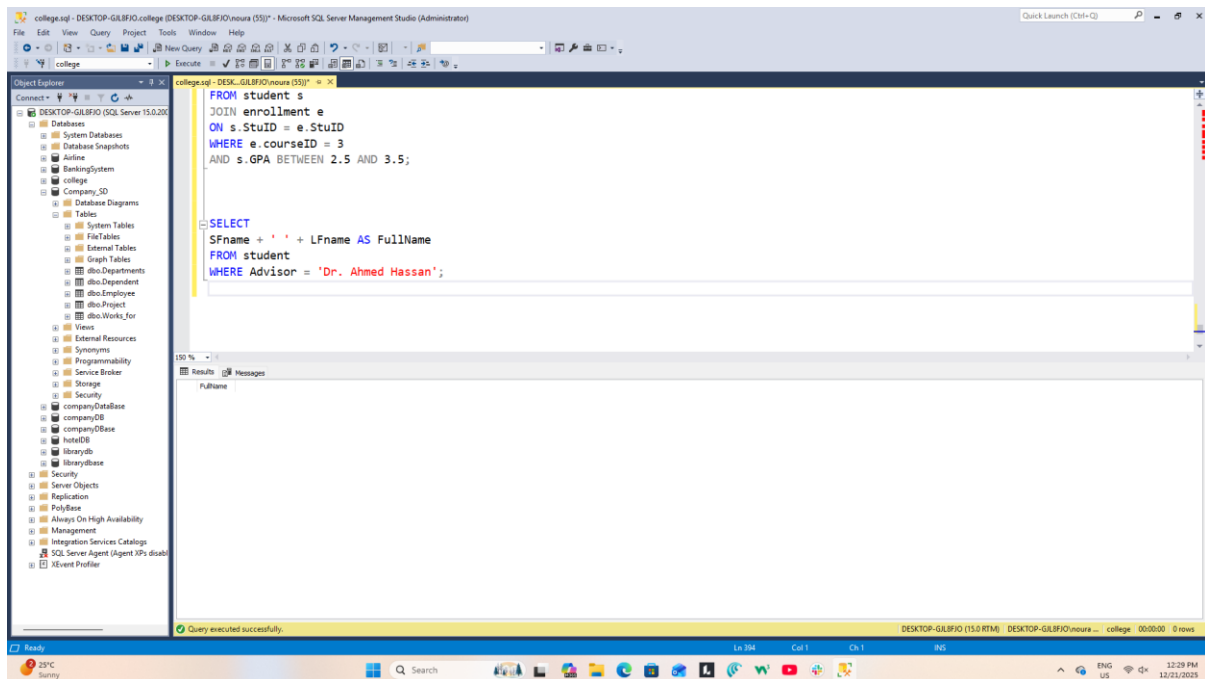
6. Display names of students in program ID 3 whose GPA is between 2.5 and 3.5.



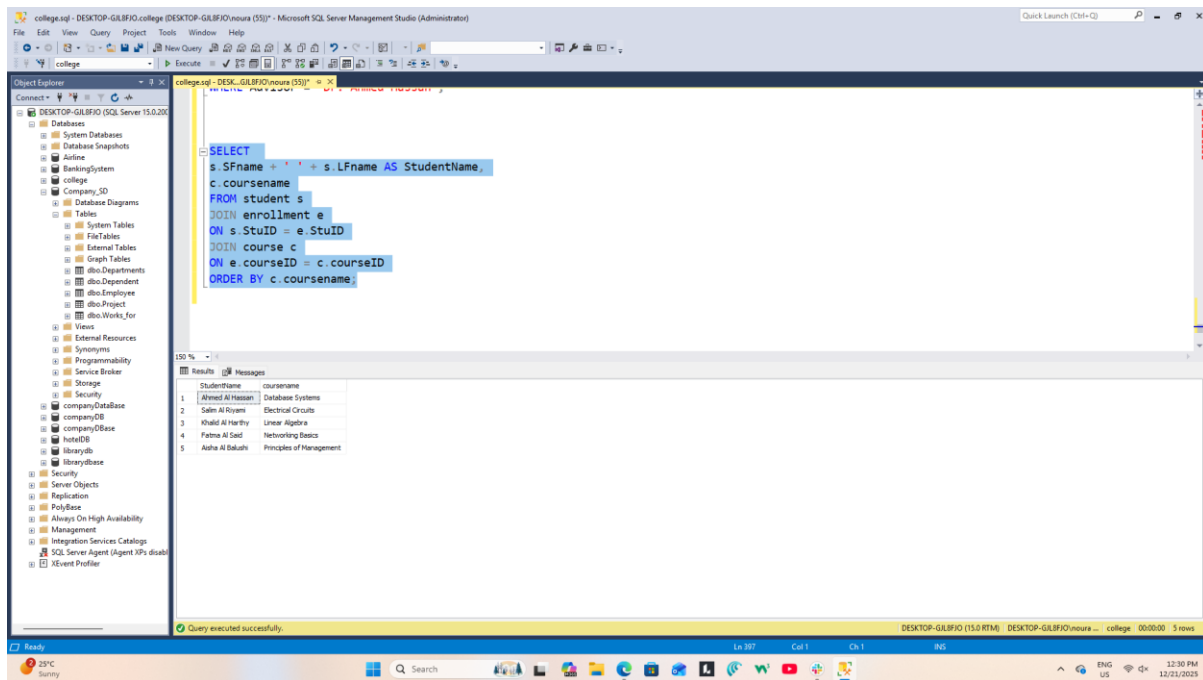
7. Retrieve student names in the Engineering program who earned grades ≥ 90 in the "Database" course.

This query cannot be executed because grades are not stored in the database

8. Find names of students who are advised by "Dr. Ahmed Hassan".



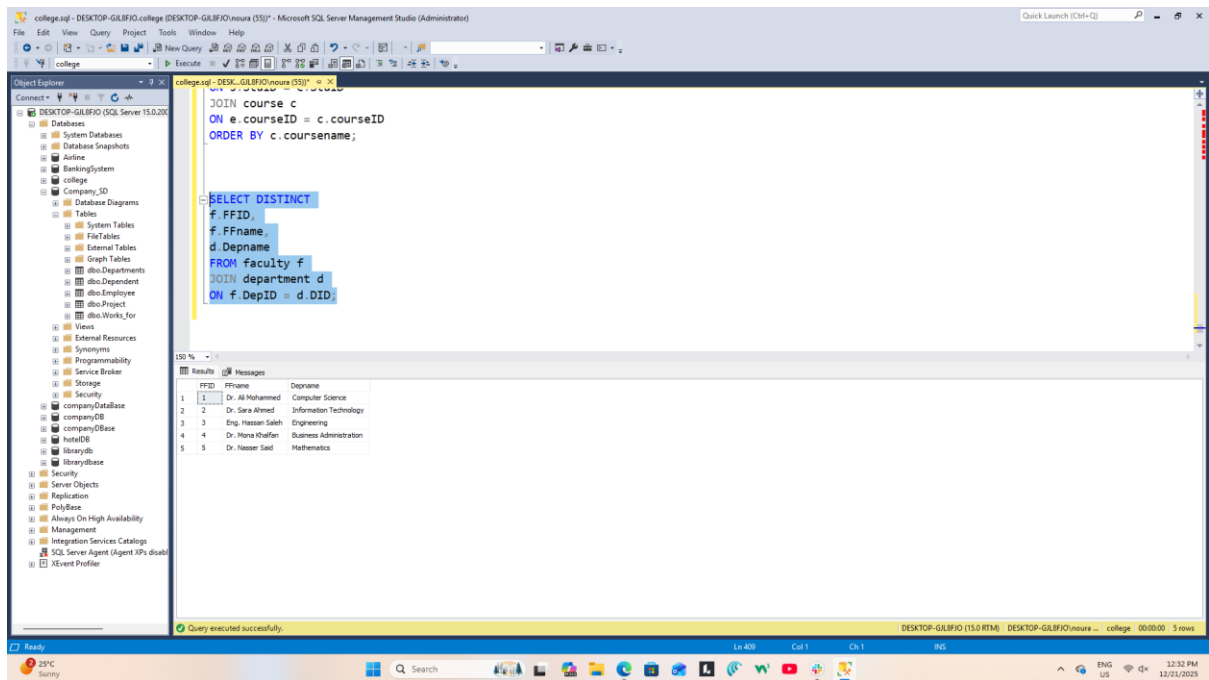
9. Retrieve each student's name and the titles of courses they are enrolled in, ordered by course title.



10. For each class in Building 'Main', retrieve class ID, course name, department name, and faculty name teaching the class.

Required tables (class/building) are not available in the database.

11. Display all faculty members who manage any department.



12. Display all students and their advisors' names, even if some students don't have advisors yet.

