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Class: ITE M2 G9

## 1. Retrieve all students who enrolled in a specific course.

The screenshot shows the SQL Developer interface. The left pane displays the database schema for the 'university\_sys' schema, including tables like 'students', 'enrollment', 'course', and 'department'. The central pane contains the following SQL query:

```
1 SELECT
2   s.first_name,
3   s.last_name,
4   c.course_code,
5   c.title,
6   e.enrollment_date,
7   d.department_id,
8   d.name,
9   building
10 FROM university_sys.students s
11 JOIN enrollment e ON s.student_id = e.student_id
12 JOIN course c ON e.course_id = c.course_id
13 JOIN department d ON c.department_id = d.department_id
14 WHERE c.course_code = '1011';
```

The right pane shows the 'Result Grid' with the following data:

| first_name | last_name | course_code | title | enrollment_date | department_id | name | building |
|------------|-----------|-------------|-------|-----------------|---------------|------|----------|
| Senglay    | Poch      | 1011        | Math  | 2025-05-16      | 1             | ITE  | T201     |
| Phearoth   | Jonh      | 1011        | Math  | 2025-05-16      | 1             | ITE  | T201     |
| Vannda     | Jonh      | 1011        | Math  | 2025-05-16      | 1             | ITE  | T201     |

## 2. find all faculty members in a particular department

The screenshot shows the SQL Developer interface. The left pane displays the database schema for the 'university\_sys' schema, including tables like 'faculty', 'department', and 'enrollment'. The central pane contains the following SQL query:

```
1 SELECT
2   f.faculty_id,
3   f.first_name,
4   f.last_name,
5   f.hire_date,
6   f.Email
7 FROM faculty f
8 JOIN department d ON f.department_id = d.department_id
9 WHERE d.name = 'ITE';
```

The right pane shows the 'Result Grid' with the following data:

| faculty_id | first_name | last_name | hire_date  | Email                  |
|------------|------------|-----------|------------|------------------------|
| 1          | Senglay    | Poch      | 2004-07-10 | senglay.poch@gmail.com |
| 2          | Vanneth    | Jonh      | 2002-06-04 | jonh.neth@gmail.com    |
| 3          | Phearoth   | Jonh      | 2002-10-13 | jonh.roth@gmail.com    |

3. List all courses a particular student is enrolled in.

The screenshot shows the SQL Developer interface with a query window open. The query is as follows:

```

1 SELECT c.course_code, c.title
2 FROM course c
3 JOIN enrollment e ON c.course_id = e.course_id
4 JOIN students s ON e.student_id = s.students_id
5 WHERE s.Email = 'senglay.poch@gmail.com';
6
7

```

The result grid shows the following data:

| course_code | title              |
|-------------|--------------------|
| 1011        | Math               |
| 1012        | Data Communication |
| 1014        | Phisycs            |
| 1015        | Networking         |

The output pane shows the execution log with the following entries:

| #  | Time     | Action  | Message           | Duration / F |
|----|----------|---|-------------------|--------------|
| 41 | 12:02:33 | SELECT c.course_code, c.title FROM course c JOIN enrollment e ON c.cours... | 4 row(s) returned | 0.015 sec /  |
| 42 | 12:02:38 | SELECT c.course_code, c.title FROM course c JOIN enrollment e ON c.cours... | 4 row(s) returned | 0.000 sec /  |
| 43 | 12:02:39 | SELECT c.course_code, c.title FROM course c JOIN enrollment e ON c.cours... | 4 row(s) returned | 0.000 sec /  |

4. Ritrievce student who have not enrolled in any course.

The screenshot shows the SQL Developer interface with a query window open. The query is as follows:

```

1 SELECT s.students_id, s.first_name, last_name, s.Email
2 FROM students s
3 LEFT JOIN enrollment e ON s.students_id= e.student_id
4 WHERE e.student_id IS NULL;

```

The result grid shows the following data:

| students_id | first_name | last_name | Email               |
|-------------|------------|-----------|---------------------|
| 3           | Vanneth    | Jonh      | jonh.neth@gmail.com |

The output pane shows the execution log with the following entries:

| #  | Time     | Action  | Message           | Duration / F |
|----|----------|---|-------------------|--------------|
| 44 | 12:02:41 | SELECT c.course_code, c.title FROM course c JOIN enrollment e ON c.cours... | 4 row(s) returned |              |
| 45 | 12:05:56 | SELECT * FROM university_sys.students LIMIT 0, 1000                         | 4 row(s) returned |              |