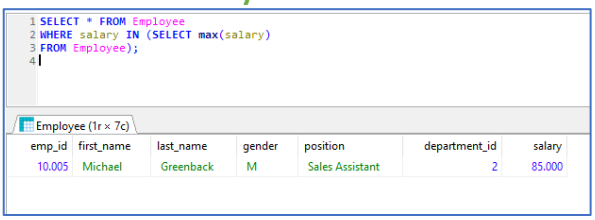
Task 2 - SQL Task-Qazi mujahid

1. Return Employee record with highest salary

SQL Query:

```
SELECT * FROM Employee
WHERE salary IN (SELECT max(salary)
FROM Employee);
```

Tested successfully.



```
1 SELECT * FROM Employee
2 WHERE salary IN (SELECT max(salary)
3 FROM Employee);
4
```

Employee (1r × 7c)

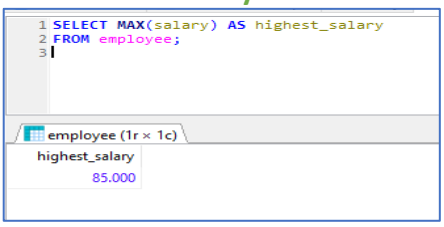
emp_id	first_name	last_name	gender	position	department_id	salary
10.005	Michael	Greenback	M	Sales Assistant	2	85.000

2. Return the highest salary in employee table

SQL Query:

```
SELECT MAX(salary) AS highest_salary
FROM Employee;
```

Tested successfully.



```
1 SELECT MAX(salary) AS highest_salary
2 FROM employee;
3
```

employee (1r × 1c)

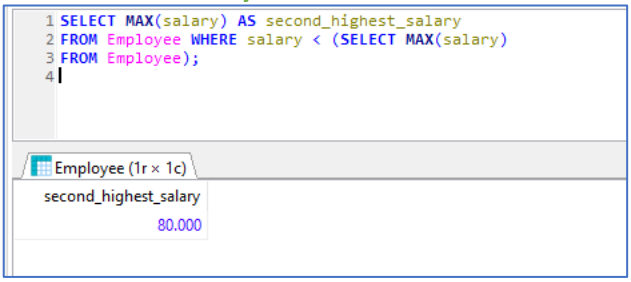
highest_salary
85.000

3. Return 2nd highest salary from employee table

SQL Query:

```
SELECT MAX(salary) AS second_highest_salary
FROM Employee WHERE salary < (SELECT MAX(salary)
FROM Employee);
```

Tested successfully



```
1 SELECT MAX(salary) AS second_highest_salary
2 FROM Employee WHERE salary < (SELECT MAX(salary)
3 FROM Employee);
4
```

Employee (1r × 1c)

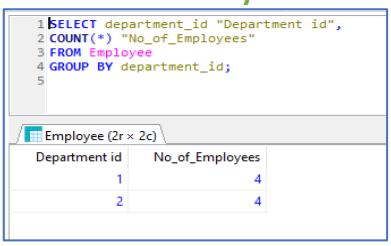
second_highest_salary
80.000

4. Select range of employees based on id

SQL Query:

```
SELECT department_id "Department id",
COUNT(*) "No_of_Employees"
FROM Employee
GROUP BY department_id;
```

Tested successfully



```
SELECT department_id "Department id",
COUNT(*) "No_of_Employees"
FROM Employee
GROUP BY department_id;
```

Employee (2r × 2c)

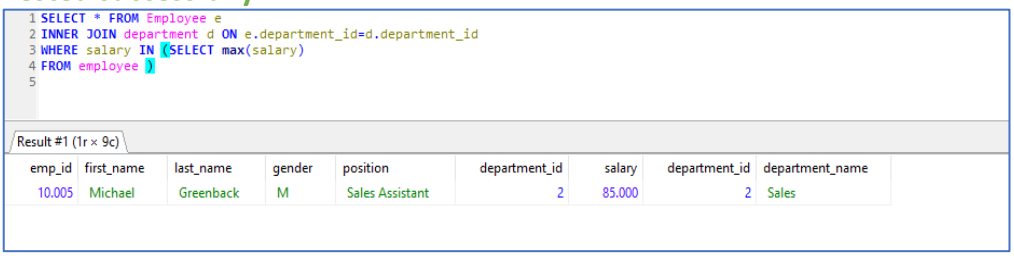
Department id	No_of_Employees
1	4
2	4

5. Return an employee with highest salary and the employee's department name

SQL Query:

```
SELECT * FROM Employee e
INNER JOIN department d ON e.department_id=d.department_id
WHERE salary IN (SELECT max(salary)
FROM employee)
```

Tested successfully



```
SELECT * FROM Employee e
INNER JOIN department d ON e.department_id=d.department_id
WHERE salary IN (SELECT max(salary)
FROM employee )
```

Result #1 (1r × 9c)

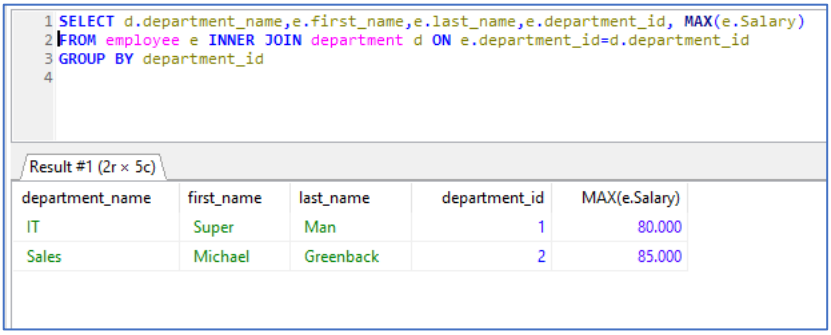
emp_id	first_name	last_name	gender	position	department_id	salary	department_id	department_name
10.005	Michael	Greenback	M	Sales Assistant	2	85.000	2	Sales

6. Return highest salary, employee_name, department_name for EACH department

SQL Query:

```
SELECT d.department_name,e.first_name,e.last_name,e.department_id,
MAX(e.Salary)
FROM employee e INNER JOIN department d ON
e.department_id=d.department_id
GROUP BY department_id
```

Tested successfully



```
SELECT d.department_name,e.first_name,e.last_name,e.department_id, MAX(e.Salary)
FROM employee e INNER JOIN department d ON e.department_id=d.department_id
GROUP BY department_id
```

Result #1 (2r × 5c)

department_name	first_name	last_name	department_id	MAX(e.Salary)
IT	Super	Man	1	80.000
Sales	Michael	Greenback	2	85.000