SQL ASSINGMENT

Gayatri Barhate

Creating table

CREATE TABLE employees (

emp_id INT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

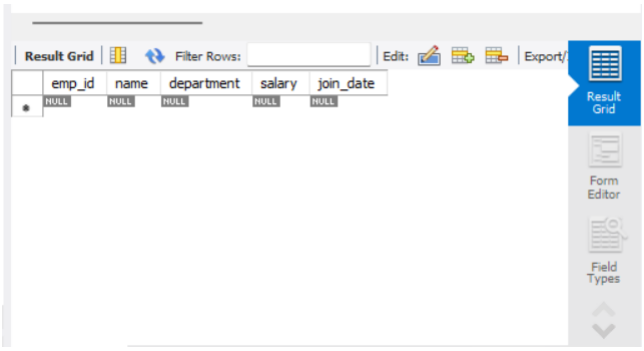
department VARCHAR(50),

salary DOUBLE,

join_date DATE

);

```
1  USE demo_db;
2  CREATE TABLE employees (
3  emp_id INT Primary KEY,
4  name VARCHAR(100) NOT NULL,
5  department VARCHAR(50),
6  salary DOUBLE,
7  join_date date);
8
9
```



Insertion of query

INSERT INTO employees (emp_id, name, department, salary, join_date)

VALUES

(101, 'John Doe', 'HR', 45000, '2021-06-15'),

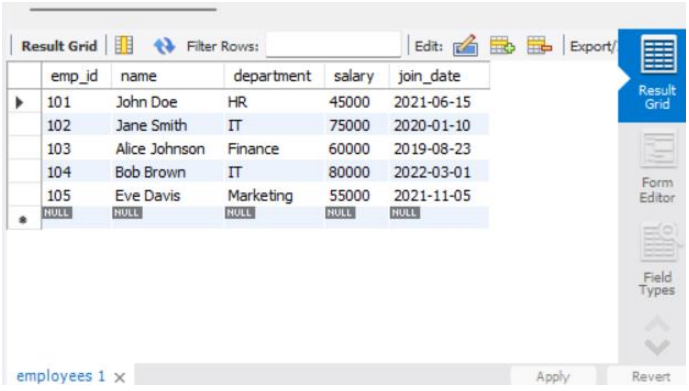
(102, 'Jane Smith', 'IT', 75000, '2020-01-10'),

(103, 'Alice Johnson', 'Finance', 60000, '2019-08-23'),

(104, 'Bob Brown', 'IT', 80000, '2022-03-01'),

(105, 'Eve Davis', 'Marketing', 55000, '2021-11-05');

```
USE demo_db;
INSERT INTO employees (emp_id, name, department, salary, join_
(101, 'John Doe', 'HR', 45000, '2021-06-15'),
(102, 'Jane Smith', 'IT', 75000, '2020-01-10'),
(103, 'Alice Johnson', 'Finance', 60000, '2019-08-23'),
(104, 'Bob Brown', 'IT', 80000, '2022-03-01'),
(105, 'Eve Davis', 'Marketing', 55000, '2021-11-05');
```



Selection of query

1. SELECT * FROM employees;

```
1 • USE demo_db;
2 • SELECT * FROM employees;
```

Result Grid | Filter Rows: | Edit: | Export/

emp_id	name	department	salary	join_date
101	John Doe	HR	45000	2021-06-15
102	Jane Smith	IT	75000	2020-01-10
103	Alice Johnson	Finance	60000	2019-08-23
104	Bob Brown	IT	80000	2022-03-01
105	Eve Davis	Marketing	55000	2021-11-05
NULL	NULL	NULL	NULL	NULL

Result Grid | Form Editor | Field Types

2. SELECT name, department FROM employees;

```
1 • USE demo_db;
2 • SELECT name, department FROM employees;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Conte

name	department
John Doe	HR
Jane Smith	IT
Alice Johnson	Finance
Bob Brown	IT
Eve Davis	Marketing

Result Grid | Form Editor | Field Types

3. SELECT * FROM employees WHERE department = 'IT';

```
1 • USE demo_db;
2 • SELECT * FROM employees WHERE department = 'IT';
```

Result Grid | Filter Rows: | Edit: | Export/

emp_id	name	department	salary	join_date
102	Jane Smith	IT	75000	2020-01-10
104	Bob Brown	IT	80000	2022-03-01
NULL	NULL	NULL	NULL	NULL

Result Grid | Form Editor | Field Types

AND, IN BETWEEN & LIKE

SELECT * FROM employees

WHERE department = 'IT' AND salary > 75000;

Limit to 1000 rows

```
1 • USE demo_db;
2
3 • SELECT * FROM employees
4   WHERE department = 'IT' AND salary > 75000;
5
```

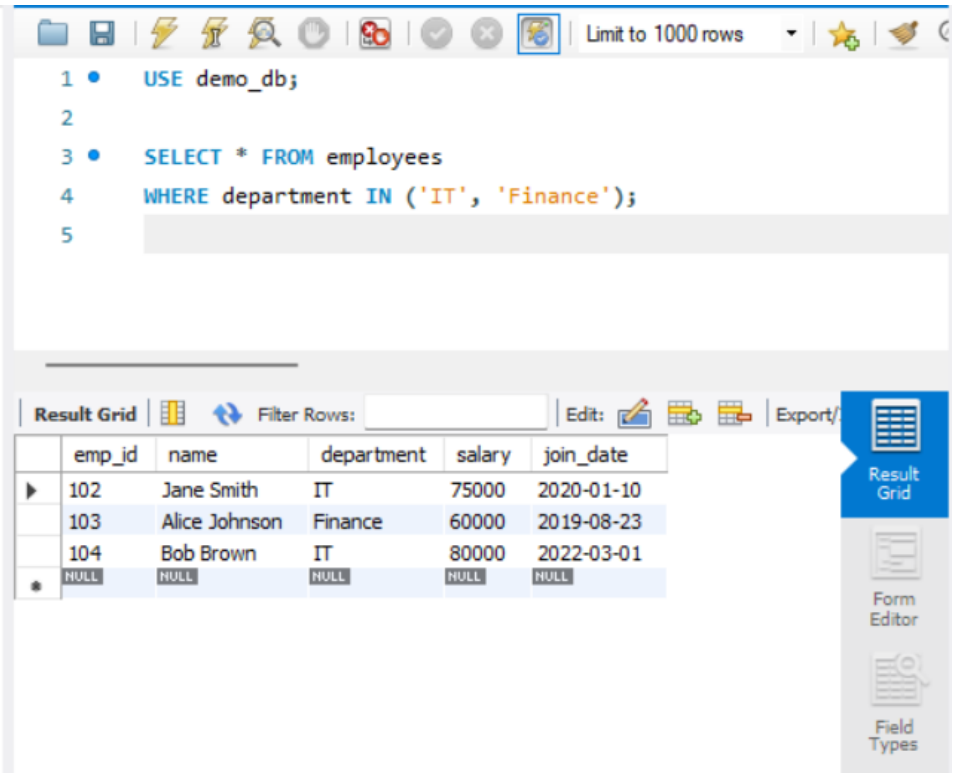
Result Grid | Filter Rows: | Edit: | Export/

emp_id	name	department	salary	join_date
104	Bob Brown	IT	80000	2022-03-01
NULL	NULL	NULL	NULL	NULL

Result Grid | Form

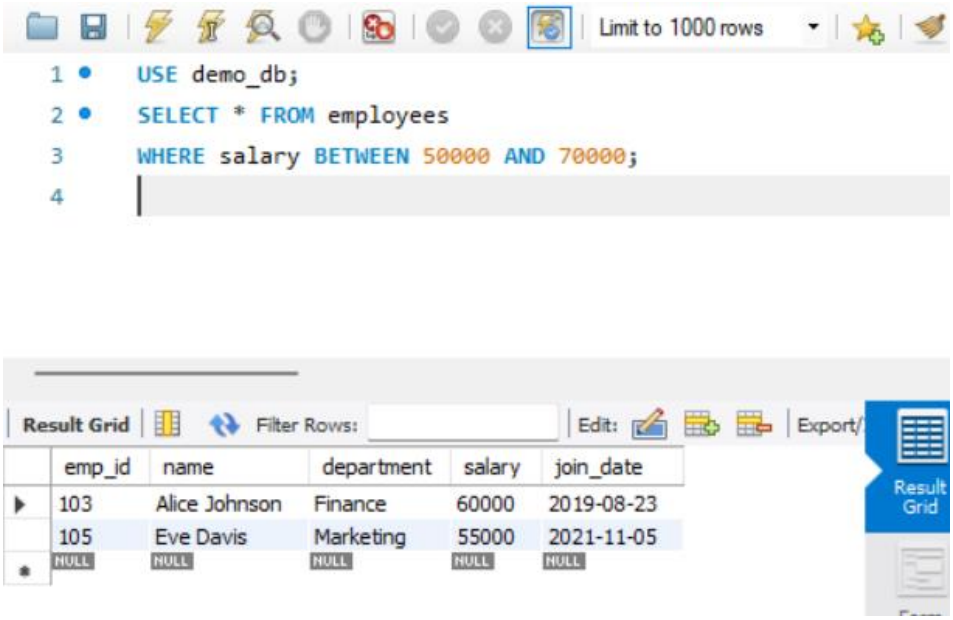
SELECT * FROM employees

WHERE department IN ('IT', 'Finance');



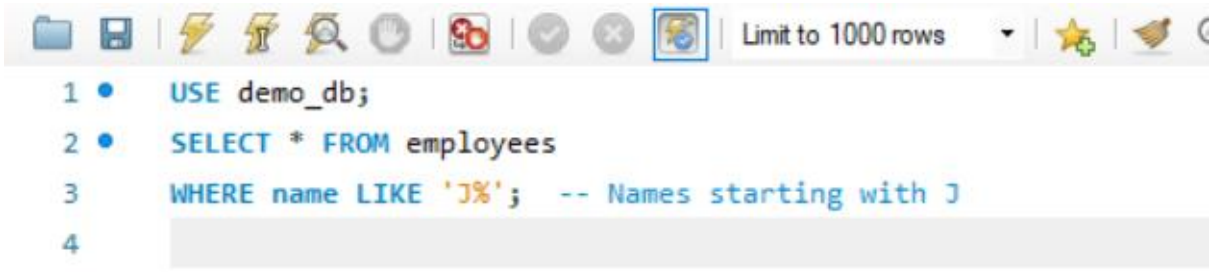
SELECT * FROM employees

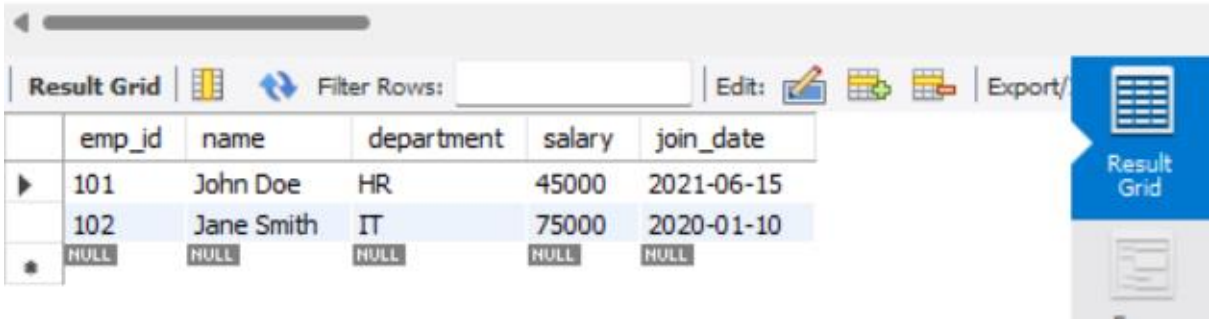
WHERE salary BETWEEN 50000 AND 70000;



SELECT * FROM employees

WHERE name LIKE 'J%'; -- Names starting with J

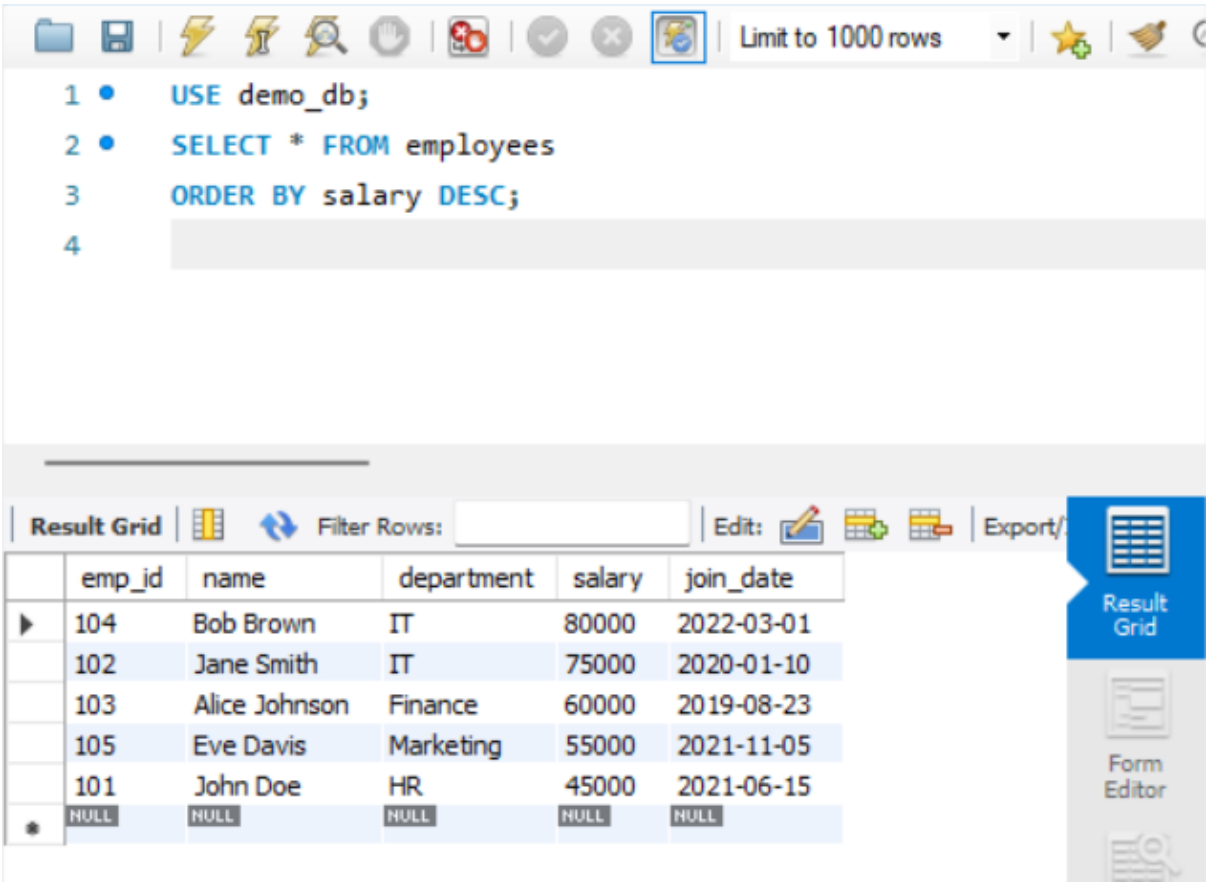




CLAUSE -ORDER BY, WHERE, HAVING

SELECT * FROM employees

ORDER BY salary DESC;



UPDATE QUERY

UPDATE employees

SET salary = 82000

WHERE emp_id = 104;

```sql
USE demo_db;
UPDATE employees
SET salary = 82000
WHERE emp_id = 104;
```

Result Grid | Filter Rows: | Edit: | Export/

emp_id	name	department	salary	join_date
101	John Doe	HR	45000	2021-06-15
102	Jane Smith	IT	75000	2020-01-10
103	Alice Johnson	Finance	60000	2019-08-23
104	Bob Brown	IT	82000	2022-03-01
105	Eve Davis	Marketing	55000	2021-11-05
NULL	NULL	NULL	NULL	NULL

Result Grid | Form Editor

DELETE FROM employees

WHERE emp_id = 105;

```sql
USE demo_db;
DELETE FROM employees
WHERE emp_id = 105;
```

Result Grid | Filter Rows: | Edit: | Export/

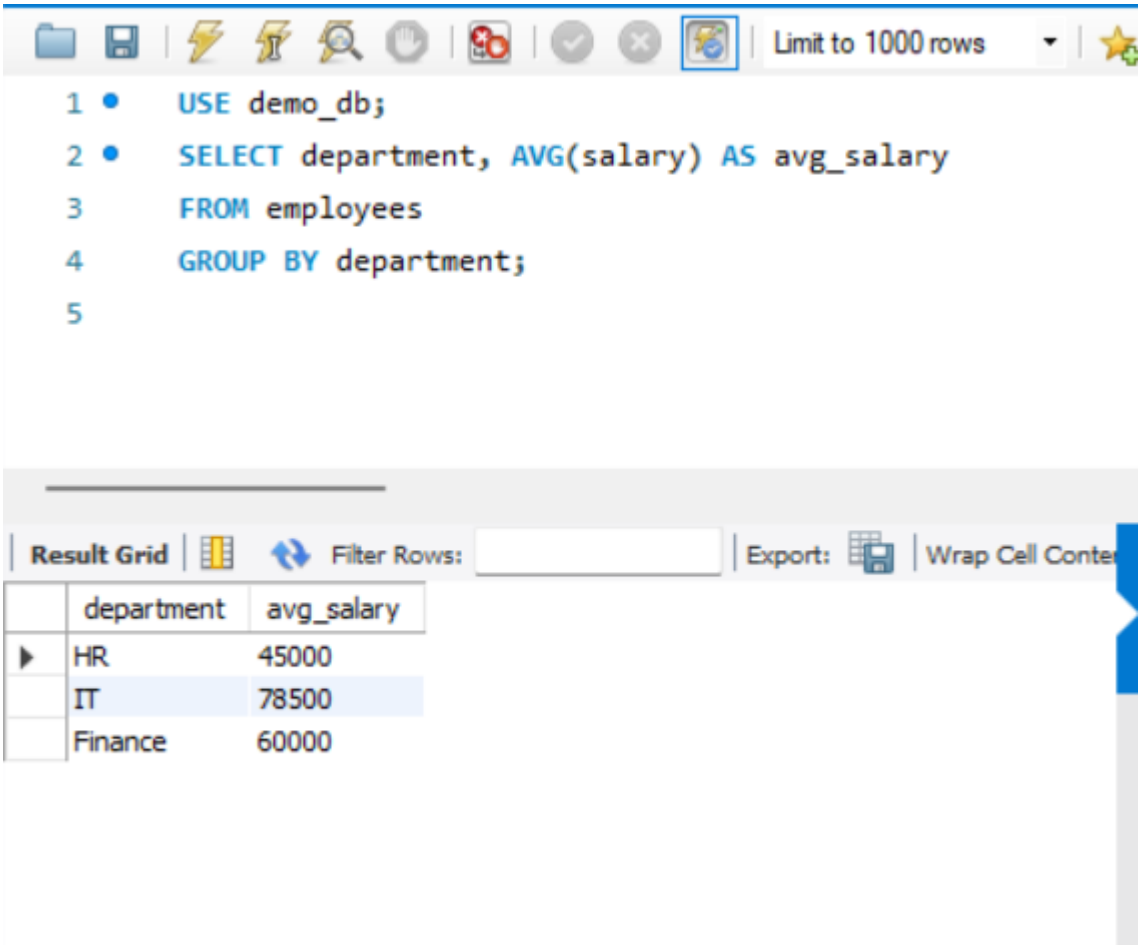
emp_id	name	department	salary	join_date
101	John Doe	HR	45000	2021-06-15
102	Jane Smith	IT	75000	2020-01-10
103	Alice Johnson	Finance	60000	2019-08-23
104	Bob Brown	IT	82000	2022-03-01
NULL	NULL	NULL	NULL	NULL

Result Grid | Form Editor

SELECT department, AVG(salary) AS avg_salary

FROM employees

GROUP BY department;

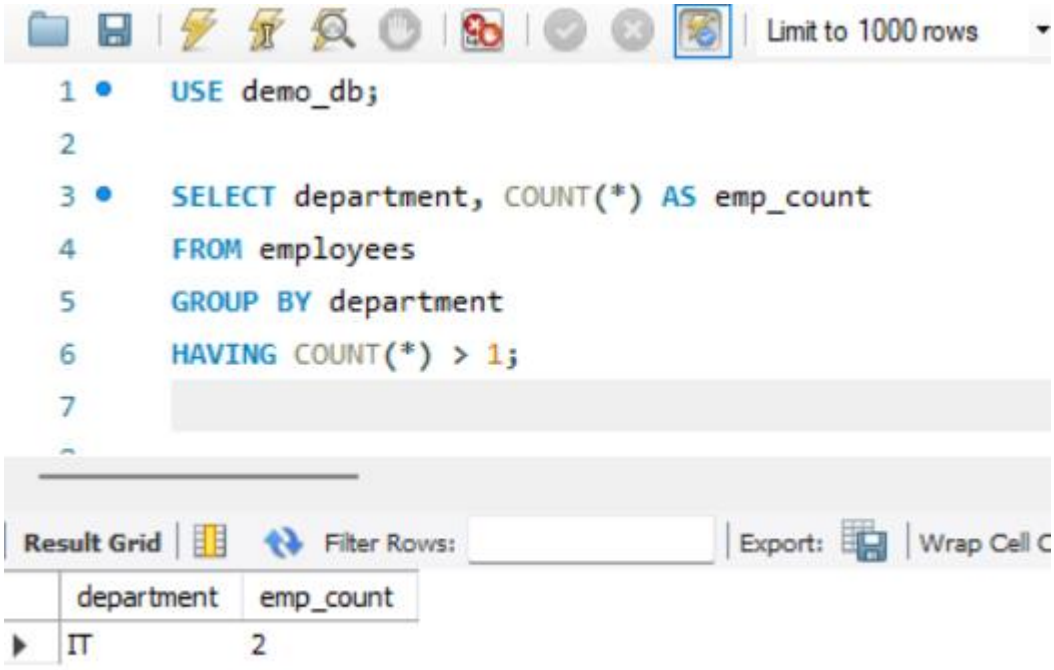


SELECT department, COUNT(*) AS emp_count

FROM employees

GROUP BY department

HAVING COUNT(*) > 1;


Limit to 1000 rows
1 USE demo_db;
2
3 SELECT department, COUNT(*) AS emp_count
4 FROM employees
5 GROUP BY department
6 HAVING COUNT(*) > 1;
7
Result Grid
Filter Rows:
Export:
Wrap Cell C
department
emp_count
IT
2