MULTI-row sub query

emp_id	emp_name	department	salary
1	John	HR	50000
2	Mary	IT	70000
3	Alex	HR	45000
4	Steve	IT	65000
5	Emma	Finance	55000

IN

1.Find all employees who work in the same department as either John or Emma.

```
select emp_name,department
from employees1
where department in (select department
from employees1
where emp_name in('John','Emma'));
```

Result Grid | Filter Rows: | Export:

emp_name	department
John	HR
Alex	HR
Emma	Finance

2. Find all employees whose salary equals any salary from the IT department.

```
select emp_name,salary
from employees1
where salary in
(select salary from employees1
where department='IT');
```

esult Grid | Filter Rows: | Expc

emp_name	salary
Mary	70000.00
Steve	65000.00

ANY

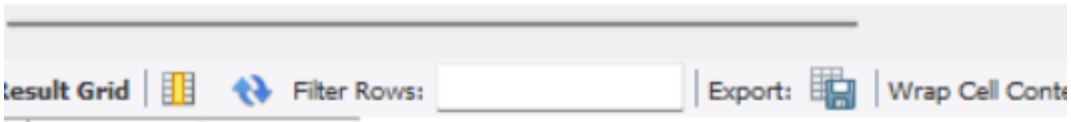
1. Find employees whose salary is greater than any salary of HR department employees.

```
123 •   select emp_name,salary
124     from employees1
125     where salary > any (select salary from employees1
126     where department='HR');
```

emp_name	salary
John	50000.00
Mary	70000.00
Steve	65000.00
Emma	55000.00

2. Find employees whose salary is less than any salary in the IT department

```
129 •   select emp_name,salary
130     from employees1
131     where salary < any (select salary from employees1
132     where department='IT');
```



emp_name	salary
John	50000.00
Alex	45000.00
Steve	65000.00
Emma	55000.00

ALL

1.Find employees whose salary is greater than all HR employees.

```
select  emp_name,salary
from employees where salary > all
(select salary from employees1
where department='HR');
```

Result Grid | Filter Rows: | Export: | Wrap

emp_name	salary
Mary	70000.00
Steve	65000.00
Emma	55000.00

2. Find employees whose salary is less than all IT employees.

```
select  emp_name,salary
from employees1 where salary < all
(select salary from employees1
where department='IT');
```

Result Grid | Filter Rows: | Export:

emp_name	salary
John	50000.00
Alex	45000.00
Emma	55000.00

Questions:

1.Find employees whose salary is greater than the average salary of any department.

```
147 •   select  emp_name,salary
148     from employees1 where salary > any
149     (select avg(salary) from employees1
150     group by department);
```

Result Grid | Filter Rows: | Export:

emp_name	salary
John	50000.00
Mary	70000.00
Steve	65000.00
Emma	55000.00

2. Find departments having employees working in the same department as John or Emma, and show total employees per department.

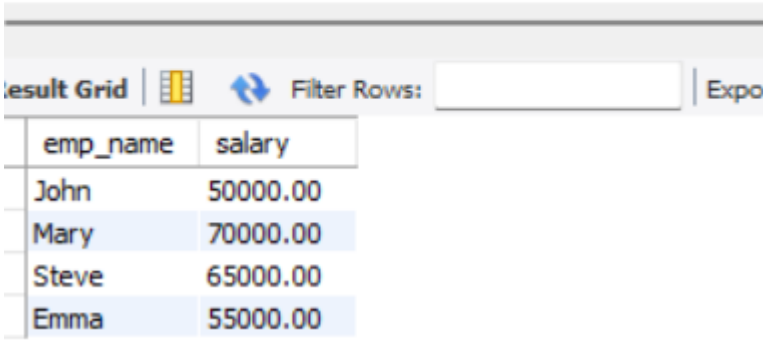
```
152 •   select department, COUNT(*) AS total_employees
153     from employees1
154     where department IN (select department
155     from employees1
156     where emp_name IN ('John', 'Emma'))
157     GROUP BY department;
```

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

department	total_employees
HR	2
Finance	1

3. Find employees whose salary is greater than any employee in the HR department.

```
59  select  emp_name,salary
60  from employees1 where salary > any
61  (select salary from employees1
62  group by department='HR');
```

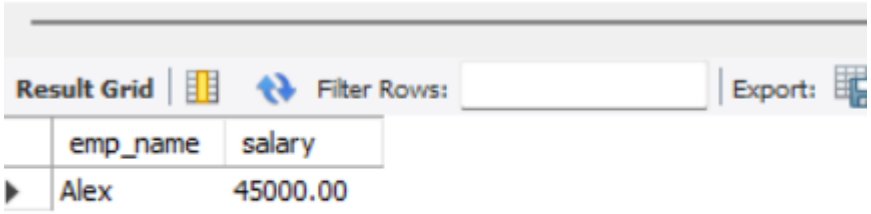


esult Grid | Filter Rows: | Expo

emp_name	salary
John	50000.00
Mary	70000.00
Steve	65000.00
Emma	55000.00

4. Find employees earning less than any average department salary (based on grouped averages).

```
159  select  emp_name,salary
160  from employees1 where salary < all
161  (select avg(salary) from employees1
162  group by department);
```



Result Grid | Filter Rows: | Export:

emp_name	salary
Alex	45000.00

5. Find employees whose salary is greater than all salaries in the HR department.

```
167 •   select emp_name, salary
168     from employees1
169     where salary > all (select salary
170     from employees1
171     where department = 'HR');
```

Result Grid | Filter Rows: | Export

emp_name	salary
Mary	70000.00
Steve	65000.00
Emma	55000.00