SQL Operators

- "=" (equal to)
- ">" (greater than)
- ">=" (greater than equal to)
- "<" (less than)</p>
- "<=" (less than equal to)</p>
- != (not equal to)
- Where (filter the records)
- AND
- OR
- NOT

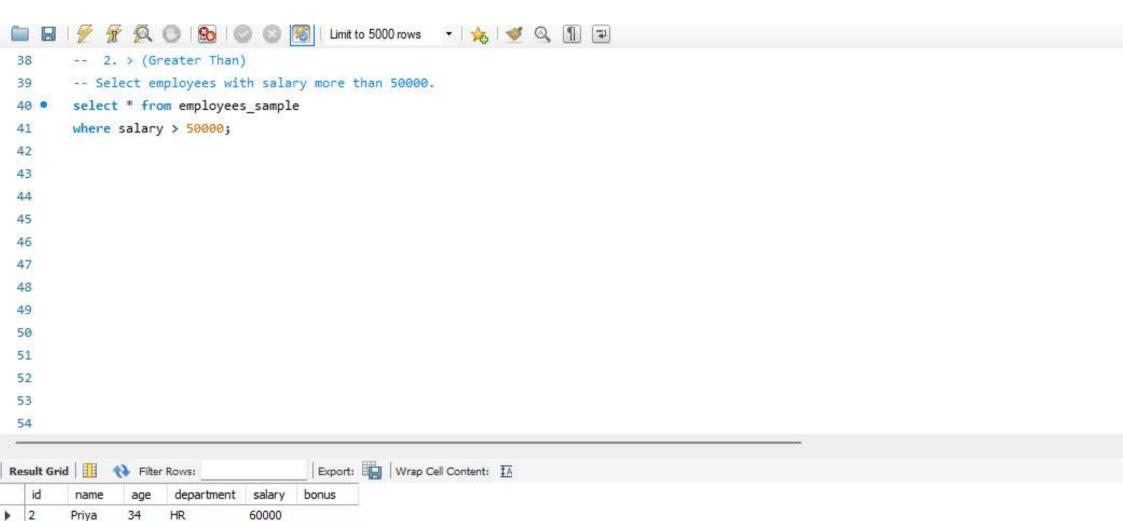
- Between
- Is null
- In
- Distinct
- Avg
- Count
- Max
- Min
- Sum

```
create database employees;
1 •
2 •
       use employees;
 3
       -- • "=" (equal to)
       -- • ">" (greater than)
       -- • ">=" (greater than equal to)
       -- • "<" (less than)
7
       -- • "<=" (less than equal to)
       -- • != (not equal to)
       -- • Where (filter the records)
10
11
       -- • AND
       -- • OR
12
       -- • NOT
13
       -- • Between
14
       -- • Is null
15
       -- • In
16
```

-- • Distinct

```
-- • Avg
18
       -- • Count
19
20
        -- • Max
       -- • Min
21
       -- • Sum
22
23
24
       -- 1. = (Equal To)
       -- Select employees from the IT department.
25
       select * from employees_sample
26 •
       where department = 'IT';
27
28
29
30
31
32
33
34
                                       | Export: | Wrap Cell Content: ‡A
```

	id	name age		department	salary	bonus	
•	1	Raj	28	Π	50000	5000.0	
	3	Arjun	24	Π	40000	3000.0	



Neha

Rakesh 30

Finance

HR

10000.0

80000

```
-- 3. >= (Greater Than or Equal To)
55
56 -- Select employees with age 30 or above.
57 ·
    SELECT * FROM employees_sample
    WHERE age >= 30;
58
59
60
61
62
63
64
65
66
Export: Wrap Cell Content: TA
 id
            department
                 salary
    name
         age
                     bonus
```

Priya

Neha

Rakesh

5

34

30

HR

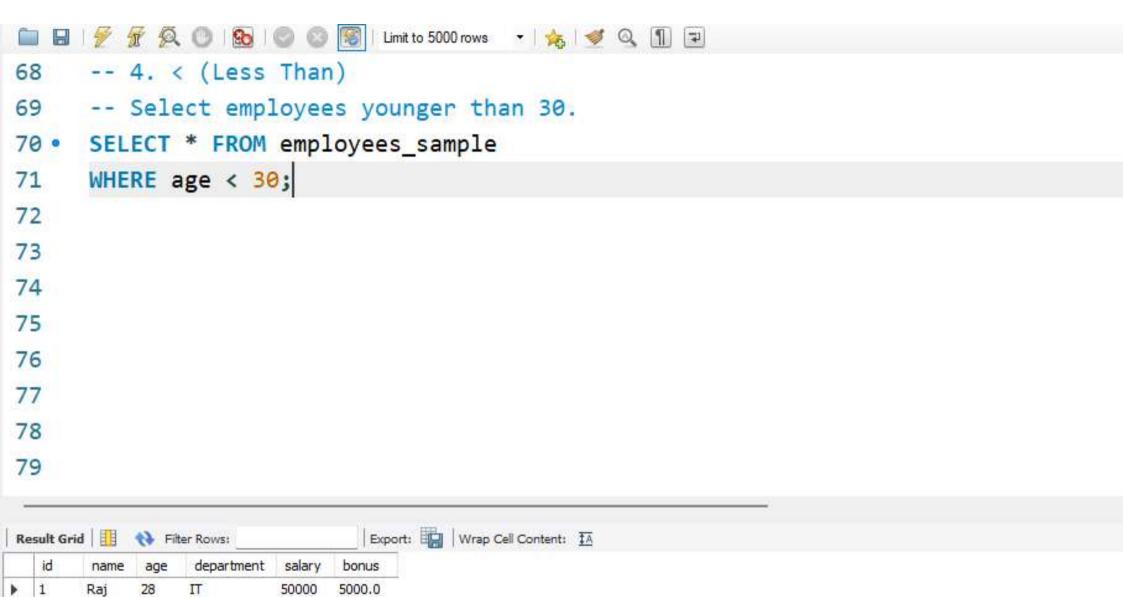
HR

Finance

60000

80000

55000



3

Arjun

24

IT

40000

```
81 -- 5. <= (Less Than or Equal To)
82 -- Select employees earning 50000 or less.
83 • SELECT * FROM employees_sample
84 WHERE age <= 50000;
85
86
```

Export: Wrap Cell Content: TA

			-		-
id	name	age	department	salary	bonus
1	Raj	28	IT	50000	5000.0
2	Priya	34	HR	60000	
3	Arjun	24	П	40000	3000.0
4	Neha	40	Finance	80000	10000.0
5	Rakesh	30	HR	55000	
	1 2 3 4	1 Raj 2 Priya 3 Arjun 4 Neha	1 Raj 28 2 Priya 34 3 Arjun 24 4 Neha 40	1 Raj 28 IT 2 Priya 34 HR 3 Arjun 24 IT 4 Neha 40 Finance	1 Raj 28 IT 50000 2 Priya 34 HR 60000 3 Arjun 24 IT 40000 4 Neha 40 Finance 80000

```
92
93 -- 6. != (Not Equal To)
94 -- Select employees not from the HR department.
95 • SELECT * FROM employees_sample
96 WHERE department != 'HR';
97
98
```

Export: Wrap Cell Content: 1A

24

name Raj

Arjun

Neha

department

IT

IT

Finance

salary

50000

40000

80000

bonus

5000.0

3000.0

10000.0

id

```
102 -- 7. WHERE (Filter Records)
103 -- Used to filter records based on conditions.
104 • SELECT * FROM employees_sample
105 WHERE bonus is not null;
106
107
108
```

Re	sult Grid	ı 📗 🐧	• Filter	Rows:		Export:		Wrap Cell Content:	<u>‡A</u>
	id	name	age	department	salary	bonus			
•	1	Raj	28	IT	50000	5000.0	-		
	2	Priya	34	HR	60000				
	3	Arjun	24	IT	40000	3000.0			
	4	Neha	40	Finance	80000	10000.0			
	5	Rakesh	30	HR	55000				

```
111
       -- 8. AND
       -- Select IT department employees older than 25.
112
113 •
       SELECT * FROM employees_sample
       WHERE department='IT' AND age > 25;
114
115
116
117
                              Export: Wrap Cell Content: ‡Ā
id
               department
                       salary
                            bonus
       name
               Π
      Raj
           28
                       50000
                            5000.0
```

id

name

Raj

Arjun

age

28

department

IT

π

salary

50000

40000

bonus

5000.0

```
-- 10. NOT
-- Select employees who are not from IT department.

SELECT * FROM employees_sample

WHERE NOT department = 'IT';

133

134

135
```

bonus

10000.0

Export: Wrap Cell Content: \$\frac{1}{4}

age

34

30

name

Priya

Neha

Rakesh

department

HR

HR

Finance

salary

60000

80000

55000

id

```
-- 11. BETWEEN

-- Select employees with salary between 45000 and 70000.

SELECT * FROM employees_sample

WHERE salary BETWEEN 45000 AND 70000;

141

142
```

Re	sult Grid	ı <u>III</u> 💉	• Filter	Rows:		Export:	Wrap Cell Content:	<u>‡A</u>
	id	name	age	department	salary	bonus		
•	1	Raj	28	IT	50000	5000.0		
	2	Priya	34	HR	60000			
	5	Rakesh	30	HR	55000			

```
-- 12. IS NULL

-- Find employees whose bonus is not given (NULL).

SELECT * FROM employees_sample

WHERE bonus is not null;

149

150

151
```

Wrap Cell Content: IA

Re	sult Grid	d 🔡 🐧	Filter	Rows:		Export:
	id	name	age	department	salary	bonus
•	1	Raj	28	IT	50000	5000.0
	2	Priya	34	HR	60000	
	3	Arjun	24	IT	40000	3000.0
	4	Neha	40	Finance	80000	10000.0
	5	Rakesh	30	HR	55000	

```
153
     -- 13. IN
       -- Select employees from HR or Finance departments.
154
155 ·
      SELECT * FROM employees_sample
      WHERE department IN ('HR', 'Finance');
156
157
158
159
                             Export: Wrap Cell Content: ‡Ā
 salary
   id
                department
                            bonus
       name
                HR
                       60000
      Priya
            34
```

Neha

Rakesh

80000

55000

Finance

HR

```
161
162 -- 14. DISTINCT
163 -- Find all unique departments.
164 • SELECT DISTINCT * FROM employees_sample;
165
166
167
```

Re	sult Grid	ı 🔢 🤸	Filter	Rows:		Export:	Wrap C	ell Content:	‡A
	id	name	age	department	salary	bonus			
>	1	Raj	28	IT	50000	5000.0			
	2	Priya	34	HR	60000				
	3	Arjun	24	IT	40000	3000.0			
	4	Neha	40	Finance	80000	10000.0			
	5	Rakesh	30	HR	55000				

```
171 -- 15. AVG() (Average)

172 -- Average salary of all employees.

173 • SELECT AVG(salary) as average_salary FROM employees_sample;

174

175

176

177

Result Grid  Filter Rows: | Export: | Wrap Cell Content: | Average_salary | From the property | From the prope
```