

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- selected\_students
- staff\_new
- staffs
  - Columns
    - staff\_id
    - staff\_name
    - department
    - salary
  - Indexes
  - Foreign Keys
  - Triggers

Administration Schemas

Information

Column: salary

Definition: salary int

joins built in functions user defined functions joins sub queries views stored procedures triggers sp DCL Day 34: Subqueries and derived...

Don't Limit

```
1 #sub queries -- single row subqueries
2 • select * from staffs ;
3 • select max(salary) from staffs ;
4 • select staff_name,salary from staffs where salary =( select max(salary) from staffs );
5 • SELECT staff_name FROM staffs
6 WHERE staff_id= (SELECT staff_id FROM staffs WHERE department ="Hr");
7 #sub queries -- Multiple row subqueries
8
9 • SELECT staff name FROM staffs WHERE department IN ( SELECT department FROM staffs WHERE salary = 25000 );
```

Result Grid

	staff_id	staff_name	department	salary
▶ 1	ajay	marketing	25000	
2	arun	sales	45000	
3	shanthan	Hr	20000	
4	das	finance	15000	
5	joseph	sales	20000	

staffs 16 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
20	16:02:46	SELECT department, AVG(salary) AS avg_salary FROM ( SELECT department, salary FRO...	0 row(s) returned	0.000 sec / 0.000 sec
21	16:46:04	select * from staffs	5 row(s) returned	0.032 sec / 0.000 sec

Object Info Session

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9 SELECT staff name FROM staffs WHERE department IN ( SELECT department FROM staffs WHERE salary = 25000 );

Result Grid

max(salary)
45000

Result 17 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 21	16:46:04	select * from staffs	5 row(s) returned	0.032 sec / 0.000 sec
✓ 22	16:46:14	select max(salary) from staffs	1 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

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Result Grid

staff_name	salary
arun	45000

Export: Wrap Cell Content

staffs 18 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
22	16:46:14	select max(salary) from staffs	1 row(s) returned	0.016 sec / 0.000 sec
23	16:46:23	select staff_name,salary from staffs where salary =(select max(salary) from staffs )	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

Read Only

MySQL Workbench

Local instance MySQL80 x

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7
8 SELECT staff_name FROM staffs WHERE department IN ( SELECT department FROM staffs WHERE salary = 25000 );
9
```

Result Grid

Filter Rows: Exports: Wrap Cell Content: [FA](#)

staff_name
shanthan

staffs 19 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 23	16:46:23	select staff_name,salary from staffs where salary =(select max(salary) from staffs )	1 row(s) returned	0.000 sec / 0.000 sec
✓ 24	16:46:41	SELECT staff_name FROM staffs WHERE staff_id= (SELECT staff_id FROM staffs WHERE...	1 row(s) returned	0.000 sec / 0.000 sec

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4 select staff\_name,salary from staffs where salary =( select max(salary) from staffs );

5 SELECT staff\_name FROM staffs WHERE staff\_id= (SELECT staff\_id FROM staffs WHERE department ="Hr");

6

7 #sub queries -- Multiple row subqueries

8 SELECT staff\_name FROM staffs WHERE department IN ( SELECT department FROM staffs WHERE salary = 25000 );

9

Result Grid

Filter Rows: Export: Wrap Cell Content: 18

staff_name
ajay

staffs 20 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
24	16:46:41	SELECT staff_name FROM staffs WHERE staff_id= (SELECT staff_id FROM staffs WHER...	1 row(s) returned	0.000 sec / 0.000 sec
25	16:46:55	SELECT staff_name FROM staffs WHERE department IN ( SELECT department FROM staf...	1 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

mysql:mysql80

Local instance MySQL80 x

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6
7 #sub queries -- Multiple row subqueries
8 • SELECT staff_name FROM staffs WHERE department IN ( SELECT department FROM staffs WHERE salary = 25000 );
9
10 ##sub queries -- correlated subqueries
11 • select staff_name,salary from staffs where salary>(select salary from staffs where staff_name="Ajay");
12
```

Result Grid

	staff_name	salary
▶	arun	45000

staffs 21 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	25 16:46:56	SELECT staff_name FROM staffs WHERE department IN ( SELECT department FROM staf...	1 row(s) returned	0.016 sec / 0.000 sec
✓	26 16:47:11	select staff_name,salary from staffs where salary>(select salary from staffs where staff_name...	1 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

Result Grid

Form Editor

Field Types

Read Only

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```
8 • SELECT staff_name FROM staffs WHERE department IN ( SELECT department FROM staffs WHERE salary = 25000 );
9
10 ##sub queries -- correlated subqueries
11 • select staff_name,salary from staffs where salary>(select salary from staffs where staff_name="Ajay");
12
13 # Derived table
14 • SELECT department, AVG(salary) AS avg_salary FROM ( SELECT department, salary FROM staffs WHERE
15 department = "sales ") AS derived_table GROUP BY salary;
16
```

Result Grid

department	avg_salary
------------	------------

Result 22

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 26	16:47:11	select staff_name,salary from staffs where salary>(select salary from staffs where staff_name...	1 row(s) returned	0.015 sec / 0.000 sec
✓ 27	16:47:22	SELECT department, AVG(salary) AS avg_salary FROM ( SELECT department, salary FRO...	0 row(s) returned	0.000 sec / 0.016 sec

Object Info Session