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Subject - SQL

Project Name - ScienceQtech Employee Performance Mapping



Navigator:

SCHEMAS

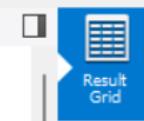
- Filter objects
- employee_database
 - Tables
 - data_science_team
 - emp_record_table
 - proj_table
 - Views
 - Stored Procedures
 - Functions
 - sys

SQL File 3* x

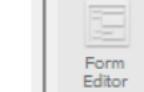
```
1 • use employee_database;
2 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT
3 FROM emp_record_table;
4
5
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

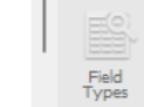
EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT
E001	Arthur	Black	M	ALL
E005	Eric	Hoffman	M	FINANCE
E010	William	Butler	M	AUTOMOTIVE
E052	Dianna	Wilson	F	HEALTHCARE
E057	Dorothy	Wilson	F	HEALTHCARE
E083	Patrick	Voltz	M	HEALTHCARE
E103	Emily	Grove	F	FINANCE
E204	Karene	Nowak	F	AUTOMOTIVE
E245	Nian	Zhen	M	RETAIL
E260	Roy	Collins	M	RETAIL
E403	Steve	Hoffman	M	FINANCE
E428	Pete	Allen	M	AUTOMOTIVE



Result Grid



Form Editor



Field Types

Read Only Context Help Snippets

emp_record_table 2 x

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 22	12:08:08	use employee_database	0 row(s) affected	0.000 sec
✓ 23	12:09:13	use employee_database	0 row(s) affected	0.000 sec
✓ 24	12:09:13	select * from proj_table LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
✓ 25	12:11:32	use employee_database	0 row(s) affected	0.000 sec
✓ 26	12:15:40	use employee_database	0 row(s) affected	0.000 sec
✓ 27	12:15:40	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec

Information:

Schema:
employee_database

Object Info Session

33°C
Mostly cloudy

ENG IN 12:15 17-09-2023

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.



Navigator:

SCHEMAS

- Filter objects
- employee_database**
 - Tables
 - data_science_team
 - emp_record_table
 - proj_table
 - Views
 - Stored Procedures
 - Functions
 - sys

SQL File 3* x

```

1 • use employee_database;
2 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT
3   FROM emp_record_table;
4   -- Employees with EMP_RATING less than two
5 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING
6   FROM emp_record_table
7   WHERE EMP_RATING < 2;

```

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

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT	EMP_RATING
E057	Dorothy	Wilson	F	HEALTHCARE	1
E532	Claire	Brennan	F	AUTOMOTIVE	1
E620	Katrina	Allen	F	RETAIL	1



SQLAdditions:



Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Administration Schemas

Information:

emp_record_table 3 emp_record_table 4 x

Read Only

Context Help Snippets

Schema:
employee_database

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 25	12:11:32	use employee_database	0 row(s) affected	0.000 sec
✓ 26	12:15:40	use employee_database	0 row(s) affected	0.000 sec
✓ 27	12:15:40	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
✓ 28	12:17:54	use employee_database	0 row(s) affected	0.000 sec
✓ 29	12:17:54	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
✓ 30	12:17:54	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session



Navigator:

SCHEMAS

- Filter objects
- employee_database
 - Tables
 - data_science_team
 - emp_record_table
 - proj_table
 - Views
 - Stored Procedures
 - Functions
 - sys

SQL File 3* x

```

9     WHERE EMP_RATING < 2;
10
11 -- Employees with EMP_RATING greater than four
12 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING
13   FROM emp_record_table
14 WHERE EMP_RATING > 4;
15

```

Limit to 1000 rows

Result Grid						
	EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT	EMP_RATING
▶	E001	Arthur	Black	M	ALL	5
▶	E052	Dianna	Wilson	F	HEALTHCARE	5
▶	E083	Patrick	Voltz	M	HEALTHCARE	5
▶	E204	Karene	Nowak	F	AUTOMOTIVE	5



SQLAdditions:



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Administration Schemas

Information:

emp_record_table 5 emp_record_table 6 emp_record_table 7 x

Read Only Context Help Snippets

Output:

Action Output	#	Time	Action	Message	Duration / Fetch
	29	12:17:54	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
	30	12:17:54	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	3 row(s) returned	0.000 sec / 0.000 sec
	31	12:18:52	use employee_database	0 row(s) affected	0.000 sec
	32	12:18:52	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
	33	12:18:52	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	3 row(s) returned	0.000 sec / 0.000 sec
	34	12:18:52	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session



Navigator:

SCHEMAS

- Filter objects
- employee_database**
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 - emp_record_table
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SQL File 3* x

```

13   FROM emp_record_table
14   WHERE EMP_RATING > 4;
15
16   -- Employees with EMP_RATING between two and four (inclusive)
17 •   SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING
18   FROM emp_record_table
19   WHERE EMP_RATING BETWEEN 2 AND 4;

```

Limit to 1000 rows

	EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT	EMP_RATING
▶	E005	Eric	Hoffman	M	FINANCE	3
	E010	William	Butler	M	AUTOMOTIVE	2
	E103	Emily	Grove	F	FINANCE	4
	E245	Nian	Zhen	M	RETAIL	2
	E260	Roy	Collins	M	RETAIL	3
	E403	Steve	Hoffman	M	FINANCE	3
	E428	Pete	Allen	M	AUTOMOTIVE	4
	E478	David	Smith	M	RETAIL	4
	E505	Chad	Wilson	M	HEALTHCARE	2
	E583	Janet	Hale	F	RETAIL	2
	E612	Tracy	Norris	F	RETAIL	4
	E640	Jenifer	Jhones	F	RETAIL	4



SQLAdditions:

◀ ▶ | ? 🔍 | Jump to

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Information:

emp_record_table 8 emp_record_table 9 emp_record_table 10 emp_record_table 11 x

Read Only Context Help Snippets

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
✓	34 12:18:52	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	4 row(s) returned	0.000 sec / 0.000 sec
✓	35 12:20:08	use employee_database	0 row(s) affected	0.000 sec
✓	36 12:20:08	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
✓	37 12:20:08	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	3 row(s) returned	0.000 sec / 0.000 sec
✓	38 12:20:08	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	4 row(s) returned	0.016 sec / 0.000 sec
✓	39 12:20:08	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	12 row(s) returned	0.000 sec / 0.000 sec



Navigator:

SCHEMAS

- Filter objects
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 - proj_table
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 - sys

SQL File 3* x

```

18     FROM emp_record_table
19     WHERE EMP_RATING BETWEEN 2 AND 4;
20
21
22 •   SELECT CONCAT(FIRST_NAME, ' ', LAST_NAME) AS NAME
23     FROM emp_record_table
24     WHERE DEPT = 'Finance';

```

Limit to 1000 rows



Result Grid

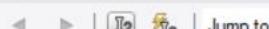
NAME
Eric Hoffman
Emily Grove
Steve Hoffman

Filter Rows:

Export: Wrap Cell Content:



SQLAdditions:



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Administration Schemas

Information

emp_record_table 12 emp_record_table 13 emp_record_table 14 emp_record_table 15 Result 16 x

Read Only

Context Help

Snippets

Schema:
employee_database

Output

Action Output

#	Time	Action	Message	Duration / Fetch
40	12:22:35	use employee_database	0 row(s) affected	0.000 sec
41	12:22:35	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
42	12:22:35	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	3 row(s) returned	0.000 sec / 0.000 sec
43	12:22:36	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	4 row(s) returned	0.000 sec / 0.000 sec
44	12:22:36	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	12 row(s) returned	0.000 sec / 0.000 sec
45	12:22:36	SELECT CONCAT(FIRST_NAME, ' ', LAST_NAME) AS NAME FROM emp_record_table WHERE DEPT = 'Fin...'	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session



Navigator:

SCHEMAS

- Filter objects
- employee_database**
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 - proj_table
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 - sys

SQL File 3* x

```

25
26
27 • SELECT E1.EMP_ID, E1.FIRST_NAME, E1.LAST_NAME, COUNT(E2.EMP_ID) AS NUM_REPORTERS
28   FROM emp_record_table AS E1
29   LEFT JOIN emp_record_table AS E2 ON E1.EMP_ID = E2.MANAGER_ID
30   GROUP BY E1.EMP_ID, E1.FIRST_NAME, E1.LAST_NAME
31   HAVING COUNT(E2.EMP_ID) > 0;
32

```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

EMP_ID	FIRST_NAME	LAST_NAME	NUM_REPORTERS
E001	Arthur	Black	5
E083	Patrick	Voltz	3
E103	Emily	Grove	2
E428	Pete	Allen	3
E583	Janet	Hale	3
E612	Tracy	Norris	2



SQLAdditions:



Jump to ▾

▼

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Administration Schemas

Information

Schema:
employee_database

Result 17 x

Read Only

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
41	12:22:35	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
42	12:22:35	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	3 row(s) returned	0.000 sec / 0.000 sec
43	12:22:36	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	4 row(s) returned	0.000 sec / 0.000 sec
44	12:22:36	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	12 row(s) returned	0.000 sec / 0.000 sec
45	12:22:36	SELECT CONCAT(FIRST_NAME, '', LAST_NAME) AS NAME FROM emp_record_table WHERE DEPT = 'Fin...	3 row(s) returned	0.000 sec / 0.000 sec
46	12:27:33	SELECT E1.EMP_ID, E1.FIRST_NAME, E1.LAST_NAME, COUNT(E2.EMP_ID) AS NUM_REPORTERS FR...	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session



Navigator:

SCHEMAS

- Filter objects
- employee_database
 - Tables
 - data_science_team
 - emp_record_table
 - proj_table
 - Views
 - Stored Procedures
 - Functions
 - sys

SQL File 3* x

```

35 •  SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT
36   FROM emp_record_table
37   WHERE DEPT = 'Healthcare'
38
39 UNION
40
41 -- Employees from the Finance department
42 SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT
43   FROM emp_record_table
44   WHERE DEPT = 'Finance';
45

```

	EMP_ID	FIRST_NAME	LAST_NAME	DEPT
▶	E052	Dianna	Wilson	HEALTHCARE
▶	E057	Dorothy	Wilson	HEALTHCARE
▶	E083	Patrick	Voltz	HEALTHCARE
▶	E505	Chad	Wilson	HEALTHCARE
▶	E005	Eric	Hoffman	FINANCE
▶	E103	Emily	Grove	FINANCE
▶	E403	Steve	Hoffman	FINANCE

SQLAdditions:



Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

Form Editor

Read Only

Context Help Snippets

Result 18 x

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
✓	42 12:22:35	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	3 row(s) returned	0.000 sec / 0.000 sec
✓	43 12:22:36	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	4 row(s) returned	0.000 sec / 0.000 sec
✓	44 12:22:36	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table ...	12 row(s) returned	0.000 sec / 0.000 sec
✓	45 12:22:36	SELECT CONCAT(FIRST_NAME, ' ', LAST_NAME) AS NAME FROM emp_record_table WHERE DEPT = 'Fin...'	3 row(s) returned	0.000 sec / 0.000 sec
✓	46 12:27:33	SELECT E1.EMP_ID, E1.FIRST_NAME, E1.LAST_NAME, COUNT(E2.EMP_ID) AS NUM_REPORTERS FR...	6 row(s) returned	0.000 sec / 0.000 sec
✓	47 12:30:15	SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT FROM emp_record_table WHERE DEPT = 'Healthcar...	7 row(s) returned	0.000 sec / 0.000 sec

Administration Schemas

Information

Schema:
employee_database

Object Info Session



Navigator:

SCHEMAS

Filter objects

employee_database

- Tables
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 - proj_table
- Views
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- Functions

sys

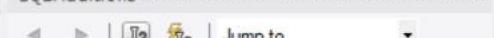
SQL File 3*

```

49     e.FIRST_NAME,
50     e.LAST_NAME,
51     e.ROLE,
52     e.DEPT,
53     e.EMP_RATING,
54     m.max_emp_rating
55   FROM
56     emp_record_table e
57   INNER JOIN (
58     SELECT DEPT, MAX(EMP_RATING) AS max_emp_rating
59     FROM emp_record_table
60     GROUP BY DEPT
61   ) m ON e.DEPT = m.DEPT;
62

```

SQLAdditions



Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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

	EMP_ID	FIRST_NAME	LAST_NAME	ROLE	DEPT	EMP_RATING	max_emp_rating
▶	E001	Arthur	Black	PRESIDENT	ALL	5	5
	E403	Steve	Hoffman	ASSOCIATE DATA SCIENTIST	FINANCE	3	4
	E103	Emily	Grove	MANAGER	FINANCE	4	4
	E005	Eric	Hoffman	LEAD DATA SCIENTIST	FINANCE	3	4
	E532	Claire	Brennan	ASSOCIATE DATA SCIENTIST	AUTOMOTIVE	1	5
	E428	Pete	Allen	MANAGER	AUTOMOTIVE	4	5
	E204	Karen	Nowak	SENIOR DATA SCIENTIST	AUTOMOTIVE	5	5
	E010	William	Butler	LEAD DATA SCIENTIST	AUTOMOTIVE	2	5
	E505	Chad	Wilson	ASSOCIATE DATA SCIENTIST	HEALTHCARE	2	5
	E083	Patrick	Voltz	MANAGER	HEALTHCARE	5	5
	E057	Dorothy	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	1	5
	E052	Dianna	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	5	5

Result 19 x



Result Grid



Form Editor



Field Types

Read Only Context Help Snippets

Output

Action Output

Object Info Session

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Tables Views Stored Procedures Functions sys

Navigator: SCHEMAS employee_database Tables data_science_team emp_record_table proj_table Views Stored Procedures Functions sys

SQL File 3* × Limit to 1000 rows

```
53     e.EMP_RATING,  
54     m.max_emp_rating  
55     FROM  
56     emp_record_table e  
57     INNER JOIN (  
58         SELECT DEPT, MAX(EMP_RATING) AS max_emp_rating  
59         FROM emp_record_table  
60         GROUP BY DEPT  
61     ) m ON e.DEPT = m.DEPT;  
62  
63  
64 • SELECT ROLE, MIN(SALARY) AS min_salary, MAX(SALARY) AS max_salary
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

ROLE	min_salary	max_salary
PRESIDENT	16500	16500
LEAD DATA SCIENTIST	8500	9000
SENIOR DATA SCIENTIST	5500	7700
MANAGER	8500	11000
ASSOCIATE DATA SCIENTIST	4000	5000
JUNIOR DATA SCIENTIST	2800	3000

Administration Schemas Information

Schema: employee_database

Result 20 × Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
47	12:30:15	SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT FROM emp_record_table WHERE DEPT = 'Healthcar...'	7 row(s) returned	0.000 sec / 0.000 sec
48	12:32:37	SELECT e.EMP_ID, e.FIRST_NAME, e.LAST_NAME, e.ROLE, e.DEPT, e.EMP_RATING, ...	19 row(s) returned	0.000 sec / 0.000 sec
49	12:35:14	SELECT ROLE, MIN(SALARY) AS min_salary, MAX(SALARY) AS max_salary FROM emp_record_table GROU...	6 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

33°C Mostly cloudy ENG IN 12:35 17-09-2023

SQLAdditions: Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Tables Database Navigator

SCHEMAS employee_database Tables Views Stored Procedures Functions sys

Administration Schemas Information

Schema: employee_database

SQL File 3* ×

Limit to 1000 rows

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
56     emp_record_table e
57     INNER JOIN (
58         SELECT DEPT, MAX(EMP_RATING) AS max_emp_rating
59         FROM emp_record_table
60         GROUP BY DEPT
61     ) m ON e.DEPT = m.DEPT;
62
63
64 •   SELECT ROLE, MIN(SALARY) AS min_salary, MAX(SALARY) AS max_salary
65     FROM emp_record_table
66     GROUP BY ROLE;
67
```

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

ROLE	min_salary	max_salary
PRESIDENT	16500	16500
LEAD DATA SCIENTIST	8500	9000
SENIOR DATA SCIENTIST	5500	7700
MANAGER	8500	11000
ASSOCIATE DATA SCIENTIST	4000	5000
JUNIOR DATA SCIENTIST	2800	3000

Result 20 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
47	12:30:15	SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT FROM emp_record_table WHERE DEPT = 'Healthcar...'	7 row(s) returned	0.000 sec / 0.000 sec
48	12:32:37	SELECT e.EMP_ID, e.FIRST_NAME, e.LAST_NAME, e.ROLE, e.DEPT, e.EMP_RATING, ...	19 row(s) returned	0.000 sec / 0.000 sec
49	12:35:14	SELECT ROLE, MIN(SALARY) AS min_salary, MAX(SALARY) AS max_salary FROM emp_record_table GROU...	6 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

33°C Mostly cloudy ENG IN 12:35 17-09-2023

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Schemas

employee_database

- Tables
 - data_science_team
 - emp_record_table
 - proj_table
- Views
- Stored Procedures
- Functions

sys

SQL File 3* ×

Limit to 1000 rows

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
67
68
69 •   SELECT
70     EMP_ID,
71     FIRST_NAME,
72     LAST_NAME,
73     ROLE,
74     DEPT,
75     EXP,
76     RANK() OVER (PARTITION BY DEPT ORDER BY EXP DESC) AS EXPERIENCE_RANK
77   FROM
78     emp_record_table;
```

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

EMP_ID	FIRST_NAME	LAST_NAME	ROLE	DEPT	EXP	EXPERIENCE_RANK
E001	Arthur	Black	PRESIDENT	ALL	20	1
E428	Pete	Allen	MANAGER	AUTOMOTIVE	14	1
E010	William	Butler	LEAD DATA SCIENTIST	AUTOMOTIVE	12	2
E204	Karene	Nowak	SENIOR DATA SCIENTIST	AUTOMOTIVE	8	3
E532	Claire	Brennan	ASSOCIATE DATA SCIENTIST	AUTOMOTIVE	3	4
E103	Emily	Grove	MANAGER	FINANCE	14	1
E005	Eric	Hoffman	LEAD DATA SCIENTIST	FINANCE	11	2
E403	Steve	Hoffman	ASSOCIATE DATA SCIENTIST	FINANCE	4	3
E083	Patrick	Voltz	MANAGER	HEALTHCARE	15	1
E057	Dorothy	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	9	2

Result 21 ×

Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
48	12:32:37	SELECT e.EMP_ID, e.FIRST_NAME, e.LAST_NAME, e.ROLE, e.DEPT, e.EMP_RATING, ...	19 row(s) returned	0.000 sec / 0.000 sec
49	12:35:14	SELECT ROLE, MIN(SALARY) AS min_salary, MAX(SALARY) AS max_salary FROM emp_record_table GROU...	6 row(s) returned	0.015 sec / 0.000 sec
50	12:37:37	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EXP, RANK() OVER (PARTI...	19 row(s) returned	0.000 sec / 0.000 sec

Output

Object Info Session

33°C Mostly cloudy

ENG IN

12:37 17-09-2023

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Tables Views Stored Procedures Functions sys

Navigator: SCHEMAS employee_database Tables data_science_team emp_record_table proj_table Views Stored Procedures Functions sys

SQL File 3* ×

Limit to 1000 rows

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
75     EXP,  
76     RANK() OVER (PARTITION BY DEPT ORDER BY EXP DESC) AS EXPERIENCE_RANK  
77   FROM  
78     emp_record_table;  
79  
80  
81 • CREATE VIEW high_salary_employees AS  
82   SELECT EMP_ID, FIRST_NAME, LAST_NAME, COUNTRY, SALARY  
83   FROM emp_record_table  
84   WHERE SALARY > 6000;  
85  
86 • SELECT * FROM high_salary_employees;
```

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

	EMP_ID	FIRST_NAME	LAST_NAME	COUNTRY	SALARY
▶	E001	Arthur	Black	USA	16500
	E005	Eric	Hoffman	USA	8500
	E010	William	Butler	FRANCE	9000
	E057	Dorothy	Wilson	USA	7700
	E083	Patrick	Voltz	USA	9500
	E103	Emily	Grove	CANADA	10500
	E204	Karene	Nowak	GERMANY	7500
	E245	Nian	Zhen	CHINA	6500
	E260	Roy	Collins	INDIA	7000
	E428	Pete	Allen	GERMANY	11000

high_salary_employees22 ×

Result Grid Form Editor Field Types

Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
✓	50 12:37:37	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EXP, RANK() OVER (PARTITION BY DEPT ORDER BY EXP DESC) AS EXPERIENCE_RANK FROM emp_record_table;	19 row(s) returned	0.000 sec / 0.000 sec
✓	51 12:39:50	CREATE VIEW high_salary_employees AS SELECT EMP_ID, FIRST_NAME, LAST_NAME, COUNTRY, SALARY FROM emp_record_table WHERE SALARY > 6000;	0 row(s) affected	0.016 sec
✓	52 12:40:23	SELECT * FROM high_salary_employees LIMIT 0, 1000	12 row(s) returned	0.000 sec / 0.000 sec

Output

Object Info Session

33°C Mostly cloudy

ENG IN

12:40 17-09-2023

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Schemas

employee_database

- Tables
 - data_science_team
 - emp_record_table
 - proj_table
- Views
- Stored Procedures
- Functions

sys

SQL File 3* x

Limit to 1000 rows

```
80
81 • CREATE VIEW high_salary_employees AS
82     SELECT EMP_ID, FIRST_NAME, LAST_NAME, COUNTRY, SALARY
83     FROM emp_record_table
84     WHERE SALARY > 6000;
85
86 • SELECT * FROM high_salary_employees;
87
88
89 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, EXP
90     FROM emp_record_table
91     WHERE EXP > 10;
```

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

EMP_ID	FIRST_NAME	LAST_NAME	EXP
E001	Arthur	Black	20
E005	Eric	Hoffman	11
E010	William	Butler	12
E083	Patrick	Voltz	15
E103	Emily	Grove	14
E428	Pete	Allen	14
E583	Janet	Hale	14
E612	Tracy	Norris	13

Administration Schemas

Information

Schema: employee_database

emp_record_table 23 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
51	12:39:50	CREATE VIEW high_salary_employees AS SELECT EMP_ID, FIRST_NAME, LAST_NAME, COUNTRY, SAL...	0 row(s) affected	0.016 sec
52	12:40:23	SELECT * FROM high_salary_employees LIMIT 0, 1000	12 row(s) returned	0.000 sec / 0.000 sec
53	12:42:16	SELECT EMP_ID, FIRST_NAME, LAST_NAME, EXP FROM emp_record_table WHERE EXP > 10 LIMIT 0, 1...	8 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

33°C Mostly cloudy

ENG IN

12:42 17-09-2023

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQLEdit SQLScript Database Browser Object Browser Help

Navigator: Schemas employee_database Tables data_science_team emp_record_table proj_table Views Stored Procedures Functions sys

SQL File 3* ×

Limit to 1000 rows

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
92  
93  
94     DELIMITER //  
95 • CREATE PROCEDURE GetEmployeesWithExperience()  
96 BEGIN  
97     SELECT EMP_ID, FIRST_NAME, LAST_NAME, EXP  
98     FROM emp_record_table  
99     WHERE EXP > 3;  
100    END //  
101    DELIMITER ;  
102  
103 • CALL GetEmployeesWithExperience();
```

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

	EMP_ID	FIRST_NAME	LAST_NAME	EXP
▶	E001	Arthur	Black	20
	E005	Eric	Hoffman	11
	E010	William	Butler	12
	E052	Dianna	Wilson	6
	E057	Dorothy	Wilson	9
	E083	Patrick	Voltz	15
	E103	Emily	Grove	14
	E204	Karene	Nowak	8
	E245	Nian	Zhen	6
	E260	Roy	Collins	7

Result 24 × Read Only Context Help Snippets

Output: Action Output

#	Time	Action	Message	Duration / Fetch
53	12:42:16	SELECT EMP_ID, FIRST_NAME, LAST_NAME, EXP FROM emp_record_table WHERE EXP > 10 LIMIT 0, 1...	8 row(s) returned	0.000 sec / 0.000 sec
54	12:44:06	CREATE PROCEDURE GetEmployeesWithExperience() BEGIN	SELECT EMP_ID, FIRST_NAME, LAST_N...	0 row(s) affected
55	12:44:35	CALL GetEmployeesWithExperience()	15 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

33°C Mostly cloudy ENG IN 12:44 17-09-2023

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Tables Views Stored Procedures Functions sys

Navigator: SCHEMAS employee_database Tables data_science_team emp_record_table proj_table Views Stored Procedures Functions sys

SQL File 3* ×

Limit to 1000 rows

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
122     ELSE
123         SET job_profile = 'MANAGER';
124     END IF;
125
126     RETURN job_profile;
127 END //
128
129 DELIMITER ;
130
131 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, EXP AS EXPERIENCE, GetJobProfile(EXP) AS JOB_PROFILE
132 FROM emp_record_table
133 LIMIT 0, 1000;
```

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

	EMP_ID	FIRST_NAME	LAST_NAME	EXPERIENCE	JOB_PROFILE
▶	E001	Arthur	Black	20	MANAGER
	E005	Eric	Hoffman	11	LEAD DATA SCIENTIST
	E010	William	Butler	12	LEAD DATA SCIENTIST
	E052	Dianna	Wilson	6	SENIOR DATA SCIENTIST
	E057	Dorothy	Wilson	9	SENIOR DATA SCIENTIST
	E083	Patrick	Voltz	15	MANAGER
	E103	Emily	Grove	14	MANAGER
	E204	Karene	Nowak	8	SENIOR DATA SCIENTIST
	E245	Nian	Zhen	6	SENIOR DATA SCIENTIST
	E260	Roy	Collins	7	SENIOR DATA SCIENTIST

Result 35 ×

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	70 12:51:35	CREATE FUNCTION GetJobProfile(experience INT) RETURNS VARCHAR(50) DETERMINISTIC READS SQ...	0 row(s) affected	0.000 sec
✗	71 12:52:13	SELECT EMP_ID, FIRST_NAME, LAST_NAME, EXPERIENCE, GetJobProfile(EXPERIENCE) AS JOB_PROF...	Error Code: 1054. Unknown column 'EMP_ID' in 'field list'	0.016 sec
✓	72 12:53:43	SELECT EMP_ID, FIRST_NAME, LAST_NAME, EXP AS EXPERIENCE, GetJobProfile(EXP) AS JOB_PROF...	19 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

34°C Partly sunny

ENG IN

12:53 17-09-2023

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQLEdit SQL Query Database Object Browser Navigator

Navigator: SCHEMAS employee_database Tables data_science_team emp_record_table proj_table Views Stored Procedures Functions sys

SQL File 3* ×

Limit to 1000 rows

134
135
136 • ALTER TABLE emp_record_table
MODIFY COLUMN FIRST_NAME VARCHAR(255); -- Change the data type as needed
138
-- Drop the existing index
140 • DROP INDEX idx_first_name ON emp_record_table;
141
-- Create the new index
143 • CREATE INDEX idx_first_name ON emp_record_table (FIRST_NAME);
144
145 • EXPLAIN SELECT * FROM emp_record_table WHERE FIRST_NAME = 'Eric';

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

	id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
▶	1	SIMPLE	emp_record_table	NULL	ref	idx_first_name	idx_first_name	1023	const	1	100.00	NULL

Administration Schemas

Information

Schema: employee_database

Result 36 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	78 13:00:45	DROP INDEX idx_first_name ON emp_record_table	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.032 sec
✓	79 13:00:45	CREATE INDEX idx_first_name ON emp_record_table (FIRST_NAME)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
✓	80 13:02:32	EXPLAIN SELECT * FROM emp_record_table WHERE FIRST_NAME = 'Eric'	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

34°C Partly sunny ENG IN 13:03 17-09-2023

SQLAdditions

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MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Schemas

employee_database

- Tables
 - data_science_team
 - emp_record_table
 - proj_table
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- Functions

sys

SQL File 3* ×

138
139 -- Drop the existing index
140 • DROP INDEX idx_first_name ON emp_record_table;
141
142 -- Create the new index
143 • CREATE INDEX idx_first_name ON emp_record_table (FIRST_NAME);
144
145 • EXPLAIN SELECT * FROM emp_record_table WHERE FIRST_NAME = 'Eric';
146
147
148 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, SALARY, EMP_RATING, (SALARY * 0.05 * EMP_RATING) AS BONUS
149 FROM emp_record_table;

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

EMP_ID	FIRST_NAME	LAST_NAME	SALARY	EMP_RATING	BONUS
E001	Arthur	Black	16500	5	4125.00
E005	Eric	Hoffman	8500	3	1275.00
E010	William	Butler	9000	2	900.00
E052	Dianna	Wilson	5500	5	1375.00
E057	Dorothy	Wilson	7700	1	385.00
E083	Patrick	Voltz	9500	5	2375.00
E103	Emily	Grove	10500	4	2100.00
E204	Karene	Nowak	7500	5	1875.00
E245	Nian	Zhen	6500	2	650.00
E260	Roy	Collins	7000	3	1050.00

Administration Schemas

Information

Schema: employee_database

Result 37 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
79	13:00:45	CREATE INDEX idx_first_name ON emp_record_table (FIRST_NAME)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
80	13:02:32	EXPLAIN SELECT * FROM emp_record_table WHERE FIRST_NAME = 'Eric'	1 row(s) returned	0.000 sec / 0.000 sec
81	13:04:25	SELECT EMP_ID, FIRST_NAME, LAST_NAME, SALARY, EMP_RATING, (SALARY * 0.05 * EMP_RATING) ...	19 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

34°C Partly sunny

ENG IN

13:04 17-09-2023

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MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Tables Databases

Navigator: SCHEMAS employee_database Tables Views Stored Procedures Functions sys

SQL File 3* ×

Limit to 1000 rows

144 • EXPLAIN SELECT * FROM emp_record_table WHERE FIRST_NAME = 'Eric';
146
147
148 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, SALARY, EMP_RATING, (SALARY * 0.05 * EMP_RATING) AS BONUS
FROM emp_record_table;
150
151
152 • SELECT CONTINENT, COUNTRY, AVG(SALARY) AS AVERAGE_SALARY
FROM emp_record_table
GROUP BY CONTINENT, COUNTRY
155 ORDER BY CONTINENT, COUNTRY;

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

	CONTINENT	COUNTRY	AVERAGE_SALARY
▶	ASIA	CHINA	6500.0000
	ASIA	INDIA	6166.6667
	EUROPE	FRANCE	9000.0000
	EUROPE	GERMANY	7600.0000
	NORTH AMERICA	CANADA	7000.0000
	NORTH AMERICA	USA	9440.0000
	SOUTH AMERICA	COLOMBIA	5600.0000

Administration Schemas Information

Schema: employee_database

Result 38 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	80 13:02:32	EXPLAIN SELECT * FROM emp_record_table WHERE FIRST_NAME = 'Eric'	1 row(s) returned	0.000 sec / 0.000 sec
✓	81 13:04:25	SELECT EMP_ID, FIRST_NAME, LAST_NAME, SALARY, EMP_RATING, (SALARY * 0.05 * EMP_RATING) ...	19 row(s) returned	0.000 sec / 0.000 sec
✓	82 13:06:15	SELECT CONTINENT, COUNTRY, AVG(SALARY) AS AVERAGE_SALARY FROM emp_record_table GROU...	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

34°C Partly sunny ENG IN 13:06 17-09-2023

SQLAdditions

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END QUERY

THANK YOU

