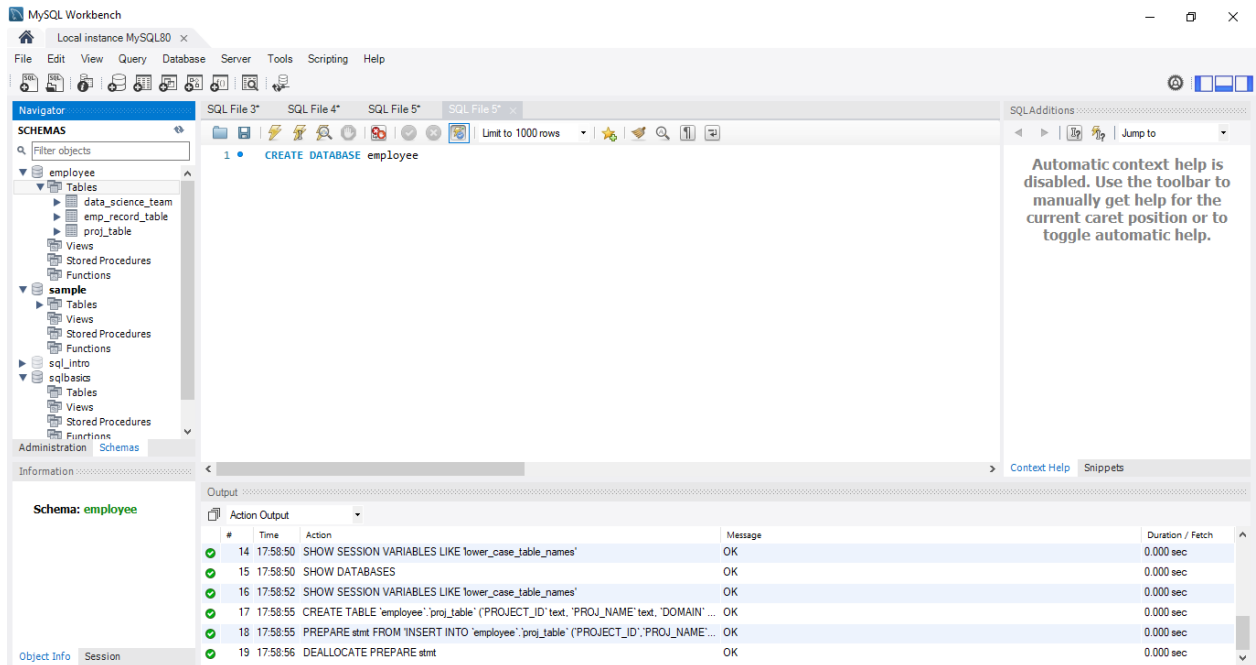
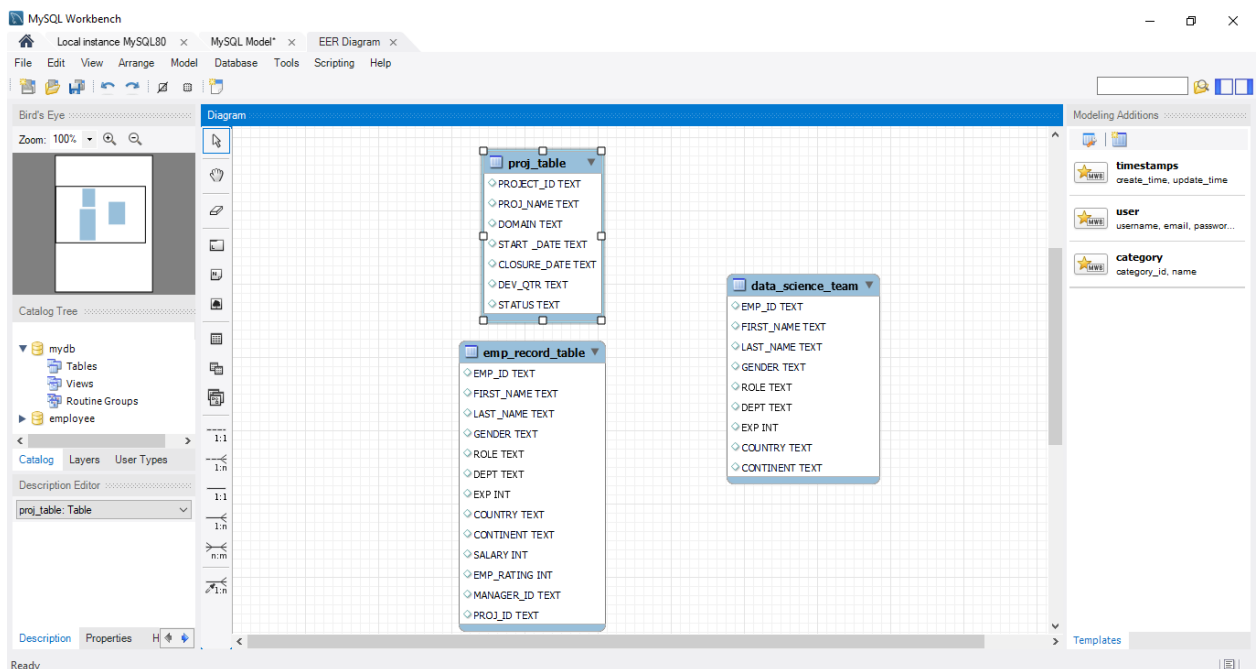


ScienceQtech Employee Performance Mapping.

1. Create a database named **employee**, then import **data_science_team.csv**, **proj_table.csv** and **emp_record_table.csv** into the **employee** database from the given resources.



2. Create an ER diagram for the given **employee** database.



3. Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, and DEPARTMENT from the employee record table, and make a list of employees and details of their department.

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

File Edit View Query Database Server Tools Scripting Help

Navigator

Filter objects

SCHEMAS

employee

Tables

data_science_team

emp_record_table

proj_table

Views

Stored Procedures

Functions

sample

Tables

Views

Stored Procedures

Functions

sql_intro

Tables

Views

Stored Procedures

Administration Schemas

Information

RULE text

DEPT text

EXP int

COUNTRY text

CONTINENT text

SALARY int

EMP_RATING int

MANAGER_ID text

PROJ_ID text

Object Info Session

Query Completed

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

1 • CREATE DATABASE employee

2 • USE employee

3 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table;

Result Grid

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

record_table 1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
18	17:58:55	PREPARE stmt FROM 'INSERT INTO 'employee'.proj_table ('PROJECT_ID','PROJ_NAM...	OK	0.000 sec
19	17:58:56	DEALLOCATE PREPARE stmt	OK	0.000 sec
20	18:15:11	USE employee	0 row(s) affected	0.000 sec
21	18:17:33	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT FROM emp_re...	Error Code: 1054. Unknown column 'DEPARTMENT' in field list'	0.062 sec
22	18:18:59	SHOW emp_record_table	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.062 sec
23	18:21:23	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table...	19 row(s) returned	0.031 sec / 0.000 sec

SQLAdditions

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

Read Only Context Help Snippets

4. Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT, and EMP_RATING if the EMP_RATING is:

- less than two
- greater than four
- between two and four

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

File Edit View Query Database Server Tools Scripting Help

Navigator

Filter objects

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employee

Tables

data_science_team

emp_record_table

proj_table

Views

Stored Procedures

Functions

sample

Tables

Views

Stored Procedures

Functions

sql_intro

Tables

Views

Stored Procedures

Administration Schemas

Information

RULE text

DEPT text

EXP int

COUNTRY text

CONTINENT text

SALARY int

EMP_RATING int

MANAGER_ID text

PROJ_ID text

Object Info Session

Query Completed

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

1 • CREATE DATABASE employee

2 • USE employee

3 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table;

4 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table WHERE EMP_RATING<2;

Result Grid

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

emp_record_table 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	17:58:56	DEALLOCATE PREPARE stmt	OK	0.000 sec
20	18:15:11	USE employee	0 row(s) affected	0.000 sec
21	18:17:33	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT FROM emp_re...	Error Code: 1054. Unknown column 'DEPARTMENT' in field list'	0.062 sec
22	18:18:59	SHOW emp_record_table	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.062 sec
23	18:21:23	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table...	19 row(s) returned	0.031 sec / 0.000 sec
24	18:34:27	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM e...	3 row(s) returned	0.047 sec / 0.000 sec

SQLAdditions

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

Read Only Context Help Snippets

MySQL Workbench

Local instance MySQL80 x MySQL Model* x EER Diagram x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

employee

- data_science_team
- emp_record_table
- proj_table
- Views
- Stored Procedures
- Functions
- sample
- Tables
- Views
- Stored Procedures
- Functions
- sql_intro
- sqlbasics
- Tables
- Views
- Stored Procedures

Administration Schemas

Information

RULE DEPT EXP COUNTRY CONTINENT SALARY EMP_RATING MANAGER_ID PROJ_ID

Object Info Session

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

Limit to 1000 rows

1 • CREATE DATABASE employee

2 • USE employee

3 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table;

4 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table WHERE EMP_RATING<2;

5 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table WHERE EMP_RATING>4;

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

emp_record_table 3 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
20	18:15:11	USE employee	0 row(s) affected	0.000 sec
21	18:17:33	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT FROM emp_re...	Error Code: 1054. Unknown column 'DEPARTMENT' in field list	0.062 sec
22	18:18:59	SHOW emp_record_table	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.062 sec
23	18:21:23	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table...	19 row(s) returned	0.031 sec / 0.000 sec
24	18:34:27	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM e...	3 row(s) returned	0.047 sec / 0.000 sec
25	18:35:53	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM e...	4 row(s) returned	0.000 sec / 0.000 sec

Queries Completed

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 x MySQL Model* x EER Diagram x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

employee

- data_science_team
- emp_record_table
- proj_table
- Views
- Stored Procedures
- Functions
- sample
- Tables
- Views
- Stored Procedures
- Functions
- sql_intro
- sqlbasics
- Tables
- Views
- Stored Procedures

Administration Schemas

Information

RULE DEPT EXP COUNTRY CONTINENT SALARY EMP_RATING MANAGER_ID PROJ_ID

Object Info Session

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

Limit to 1000 rows

1 • CREATE DATABASE employee

2 • USE employee

3 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table;

4 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table WHERE EMP_RATING<2;

5 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table WHERE EMP_RATING>4;

6 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table WHERE EMP_RATING>=2 AND EMP_RATING<=4;

Result Grid

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

emp_record_table 5 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
22	18:18:59	SHOW emp_record_table	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.062 sec
23	18:21:23	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table...	19 row(s) returned	0.031 sec / 0.000 sec
24	18:34:27	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM e...	3 row(s) returned	0.047 sec / 0.000 sec
25	18:35:53	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM e...	4 row(s) returned	0.000 sec / 0.000 sec
26	18:37:38	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM e...	3 row(s) returned	0.000 sec / 0.000 sec
27	18:38:10	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM e...	12 row(s) returned	0.000 sec / 0.000 sec

Queries Completed

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

- Write a query to concatenate the FIRST_NAME and the LAST_NAME of employees in the Finance department from the employee table and then give the resultant column alias as NAME.

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

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SCHEMAS

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data_science_team

emp_record_table

proj_table

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sql_intro

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Tables

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Administration Schemas

Information

Table: emp_record_table

Columns:

EMP_ID text

FIRST_NAME text

LAST_NAME text

GENDER text

ROLE text

DEPT text

EXP int

Object Info Session

Query Completed

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

Limit to 1000 rows

2 USE employee

3 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table;

4 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table WHERE EMP_RATING<2;

5 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table WHERE EMP_RATING>4;

6 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table

7 WHERE EMP_RATING>=2 AND EMP_RATING<=4;

8 SELECT *, CONCAT(FIRST_NAME, ' ', LAST_NAME) AS NAME FROM emp_record_table WHERE DEPT='FINANCE';

Result Grid

ROLE	DEPT	EXP	COUNTRY	CONTINENT	SALARY	EMP_RATING	MANAGER_ID	PROJ_ID	NAME
LEAD DATA SCIENTIST	FINANCE	11	USA	NORTH AMERICA	8500	3	E103	P105	Eric Hoffman
MANAGER	FINANCE	14	CANADA	NORTH AMERICA	10500	4	E001		Emily Grove
ASSOCIATE DATA SCIENTIST	FINANCE	4	USA	NORTH AMERICA	5000	3	E103	P105	Steve Hoffman

Output

Action Output

#	Time	Action	Message	Duration / Fetch
25	18:35:53	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM e...	4 row(s) returned	0.000 sec / 0.000 sec
26	18:37:38	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM e...	3 row(s) returned	0.000 sec / 0.000 sec
27	18:38:10	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM e...	12 row(s) returned	0.000 sec / 0.000 sec
28	18:54:19	SELECT * FROM emp_record_table, CONCAT(FIRST_NAME, ' ', LAST_NAME) AS NAME W...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.031 sec
29	18:56:28	SELECT * . CONCAT(FIRST_NAME, ' ', LAST_NAME) AS NAME FROM emp_record_table W...	3 row(s) returned	0.047 sec / 0.000 sec
30	18:57:18	SELECT * . CONCAT(FIRST_NAME, ' ', LAST_NAME) AS NAME FROM emp_record_table ...	3 row(s) returned	0.000 sec / 0.000 sec

Read Only Context Help Snippets

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

6. Write a query to list only those employees who have someone reporting to them. Also, show the number of reporters (including the President).

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

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Navigator

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emp_record_table

proj_table

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Views

Stored Procedures

Functions

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Tables

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Administration Schemas

Information

GENDER text

ROLE text

DEPT text

EXP int

COUNTRY text

CONTINENT text

SALARY int

EMP_RATING int

MANAGER_ID text

PROJ_ID text

Object Info Session

Query Completed

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

Limit to 1000 rows

5 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table WHERE EMP_RATING>4;

6 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table

7 WHERE EMP_RATING>=2 AND EMP_RATING<=4;

8 SELECT *, CONCAT(FIRST_NAME, ' ', LAST_NAME) AS NAME FROM emp_record_table WHERE DEPT='FINANCE';

9 SELECT MANAGER_ID, COUNT(EMP_ID) AS EMP_COUNT FROM emp_record_table

10 GROUP BY MANAGER_ID

11 ORDER BY EMP_COUNT DESC;

Result Grid

MANAGER_ID	EMP_COUNT
E001	5
E428	3
E083	3
E583	3
E103	2
E612	2

Output

Action Output

#	Time	Action	Message	Duration / Fetch
33	20:15:34	SELECT MANAGER_ID, COUNT(EMP_ID) AS EMP_COUNT FROM emp_record_table GR...	7 row(s) returned	0.250 sec / 0.000 sec
34	20:16:42	SELECT MANAGER_ID, COUNT(EMP_ID) AS EMP_COUNT, ROLE FROM emp_record_ja...	Error Code: 1055. Expression #3 of SELECT list is not in GROUP BY clause and contains no...	0.016 sec
35	20:21:10	SELECT MANAGER_ID, COUNT(EMP_ID) AS EMP_COUNT, FROM emp_record_table GR...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
36	20:21:29	SELECT MANAGER_ID, COUNT(EMP_ID) AS EMP_COUNT, FROM emp_record_table GR...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
37	20:21:46	SELECT * . CONCAT(FIRST_NAME, ' ', LAST_NAME) AS NAME FROM emp_record_table ...	3 row(s) returned	0.000 sec / 0.000 sec
38	20:22:39	SELECT MANAGER_ID, COUNT(EMP_ID) AS EMP_COUNT FROM emp_record_table GR...	7 row(s) returned	0.000 sec / 0.000 sec

Read Only Context Help Snippets

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

7. Write a query to list down all the employees from the healthcare and finance departments using union. Take data from the employee record table.

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

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Filter objects

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emp_record_table

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Administration Schemas

Information

FIRST_NAME text

LAST_NAME text

GENDER text

ROLE text

DEPT text

EXP int

COUNTRY int

CONTINENT int

SALARY int

EMP_RATING int

MANAGER_ID text

PROJ_ID text

Object Info Session

Query Completed

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

Limit to 1000 rows

SQL

10 GROUP BY MANAGER_ID

11 ORDER BY EMP_COUNT DESC;

12 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT FROM emp_record_table

13 WHERE DEPT='HEALTHCARE';

14 UNION

15 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT FROM emp_record_table

16 WHERE DEPT='FINANCE';

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	ROLE	DEPT
E052	Dianna	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE
E057	Dorothea	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE
E083	Patrick	Voltz	MANAGER	HEALTHCARE
E050	Chad	Wilson	ASSOCIATE DATA SCIENTIST	HEALTHCARE
E005	Eric	Hoffman	LEAD DATA SCIENTIST	FINANCE
E103	Emilv	Grove	MANAGER	FINANCE

Result 11 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
35	20:21:10	SELECT MANAGER_ID, COUNT(EMP_ID) AS EMP_COUNT, FROM emp_record_table GR...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
36	20:21:29	SELECT MANAGER_ID, COUNT(EMP_ID) AS EMP_COUNT, FROM emp_record_table GR...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
37	20:21:46	SELECT * , CONCAT(FIRST_NAME, ' ' , LAST_NAME) AS NAME FROM emp_record_table ...	3 row(s) returned	0.000 sec / 0.000 sec
38	20:22:39	SELECT MANAGER_ID, COUNT(EMP_ID) AS EMP_COUNT FROM emp_record_table GR...	7 row(s) returned	0.000 sec / 0.000 sec
39	20:23:17	SELECT MANAGER_ID, ROLE, COUNT(EMP_ID) AS EMP_COUNT FROM emp_record_ta...	Error Code: 1055. Expression #2 of SELECT list is not in GROUP BY clause and contains no...	0.000 sec
40	21:00:49	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT FROM emp_record_table W...	7 row(s) returned	0.188 sec / 0.000 sec

Read Only Context Help Snippets

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

8. Write a query to list down employee details such as EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPARTMENT, and EMP_RATING grouped by dept. Also include the respective employee rating along with the max emp rating for the department.

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

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Administration Schemas

Information

FIRST_NAME text

LAST_NAME text

GENDER text

ROLE text

DEPT text

EXP int

COUNTRY int

CONTINENT int

SALARY int

EMP_RATING int

MANAGER_ID text

PROJ_ID text

Object Info Session

Query Completed

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

Limit to 1000 rows

SQL

12 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT FROM emp_record_table

13 WHERE DEPT='HEALTHCARE';

14 UNION

15 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT FROM emp_record_table

16 WHERE DEPT='FINANCE';

17 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING, MAX(EMP_RATING) OVER(PARTITION BY DEPT)

18 AS MAX_EMP_RATING FROM emp_record_table;

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	ROLE	DEPT	EMP_RATING	MAX_EMP_RATING
E001	Arthur	Black	PRESIDENT	ALL	5	5
E010	William	Butler	LEAD DATA SCIENTIST	AUTOMOTIVE	2	5
E204	Karen	Nowak	SENIOR DATA SCIENTIST	AUTOMOTIVE	5	5
E428	Pete	Allen	MANAGER	AUTOMOTIVE	4	5
E532	Clare	Brennan	ASSOCIATE DATA SCIENTIST	AUTOMOTIVE	1	5
E005	Eric	Hoffman	LEAD DATA SCIENTIST	FINANCE	3	4

Result 12 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
40	21:00:49	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT FROM emp_record_table W...	7 row(s) returned	0.188 sec / 0.000 sec
41	21:32:48	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING FROM emp...	Error Code: 1055. Expression #1 of SELECT list is not in GROUP BY clause and contains no...	0.031 sec
42	21:34:37	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING FROM emp...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
43	21:35:16	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, COUNT(EMP_RATING) FR...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
44	21:36:13	SELECT COUNT(EMP_RATING), EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT FR...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
45	23:19:48	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING, MAX(EMP...	19 row(s) returned	0.172 sec / 0.032 sec

Read Only Context Help Snippets

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

9. Write a query to calculate the minimum and the maximum salary of the employees in each role. Take data from the employee record table.

MySQL Workbench

Local instance MySQL80 x MySQL Model* x EER Diagram x

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data_science_team

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Administration Schemas

Information

ROLE text

DEPT text

EXP int

COUNTRY text

CONTINENT text

SALARY int

EMP_RATING int

MANAGER_ID text

PROJ_ID text

Object Info Session

Query Completed

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

Limit to 1000 rows

SQL

14 UNION

15 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT FROM emp_record_table

16 WHERE DEPT='FINANCE';

17 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING, MAX(EMP_RATING) OVER(PARTITION BY DEPT)

18 AS MAX_EMP_RATING FROM emp_record_table;

19 SELECT ROLE, MAX(SALARY) AS MAXIMUM_SALARY, MIN(SALARY) AS MINIMUM_SALARY FROM emp_record_table

20 GROUP BY ROLE;

Result Grid

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

Result 13 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
41	21:32:48	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING FROM emp_...	Error Code: 1055 Expression #1 of SELECT list is not in GROUP BY clause and contains no...	0.031 sec
42	21:34:37	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING FROM emp_...	Error Code: 1064 You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
43	21:35:16	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, COUNT(EMP_RATING) FR...	Error Code: 1064 You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
44	21:36:13	SELECT COUNT(EMP_RATING), EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT FR...	Error Code: 1064 You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
45	23:19:48	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING, MAX(EMP_...	19 row(s) returned	0.172 sec / 0.032 sec
46	23:31:36	SELECT ROLE, MAX(SALARY) AS MAXIMUM_SALARY, MIN(SALARY) AS MINIMUM_SA...	6 row(s) returned	0.016 sec / 0.016 sec

Read Only Context Help Snippets

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

10. Write a query to assign ranks to each employee based on their experience. Take data from the employee record table.

MySQL Workbench

Local instance MySQL80 x MySQL Model* x EER Diagram x

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Information

ROLE text

DEPT text

EXP int

COUNTRY text

CONTINENT text

SALARY int

EMP_RATING int

MANAGER_ID text

PROJ_ID text

Object Info Session

Query Completed

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

Limit to 1000 rows

SQL

17 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING, MAX(EMP_RATING) OVER(PARTITION BY DEPT)

18 AS MAX_EMP_RATING FROM emp_record_table;

19 SELECT ROLE, MAX(SALARY) AS MAXIMUM_SALARY, MIN(SALARY) AS MINIMUM_SALARY FROM emp_record_table

20 GROUP BY ROLE;

21 SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT, EXP,

22 RANK() OVER(ORDER BY EXP DESC) AS RANKING_EXP

23 FROM emp_record_table;

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	DEPT	EXP	RANKING_EXP
E001	Arthur	Black	ALL	20	1
E083	Patrick	Voltz	HEALTHCARE	15	2
E103	Emily	Grove	FINANCE	14	3
E428	Pete	Allen	AUTOMOTIVE	14	3
E583	Janet	Hale	RETAIL	14	3
E612	Tracy	Norris	RETAIL	13	6

Result 15 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
44	21:36:13	SELECT COUNT(EMP_RATING), EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT FR...	Error Code: 1064 You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
45	23:19:48	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING, MAX(EMP_...	19 row(s) returned	0.172 sec / 0.032 sec
46	23:31:36	SELECT ROLE, MAX(SALARY) AS MAXIMUM_SALARY, MIN(SALARY) AS MINIMUM_SA...	6 row(s) returned	0.016 sec / 0.016 sec
47	23:54:33	SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT, EXP RANK() OVER(ORDER BY E...	Error Code: 1064 You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
48	23:55:13	SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT, EXP, RANK() OVER(ORDER BY E...	19 row(s) returned	0.047 sec / 0.000 sec
49	23:56:02	SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT, EXP, RANK() OVER(ORDER BY E...	19 row(s) returned	0.016 sec / 0.000 sec

Read Only Context Help Snippets

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

11. Write a query to create a view that displays employees in various countries whose salary is more than six thousand. Take data from the employee record table.

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

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Navigator

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

Limit to 1000 rows

21 SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT, EXP,
22 RANK() OVER(ORDER BY EXP DESC) AS RANKING_EXP
23 FROM emp_record_table;
24 CREATE VIEW EMP_COUNTRY AS
25 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, COUNTRY, SALARY
26 FROM emp_record_table
27 WHERE SALARY>5000;

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	ROLE	DEPT	COUNTRY	SALARY
E001	Arthur	Black	PRESIDENT	ALL	USA	16500
E005	Eric	Hoffman	LEAD DATA SCIENTIST	FINANCE	USA	8500
E010	William	Butler	LEAD DATA SCIENTIST	AUTOMOTIVE	FRANCE	9000
E057	Dorothy	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	USA	7700
E083	Patrick	Voltz	MANAGER	HEALTHCARE	USA	9500
E103	Emilv	Grove	MANAGER	FINANCE	CANADA	10500

Information

Table: emp_record_table

Columns:

- EMP_ID text
- FIRST_NAME text
- LAST_NAME text
- GENDER text
- ROLE text
- DEPT text
- EXP int

Object Info Session

Query Completed

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

12. Write a nested query to find employees with experience of more than ten years. Take data from the employee record table.

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

File Edit View Query Database Server Tools Scripting Help

Navigator

SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 6*

Limit to 1000 rows

23 FROM emp_record_table;
24 CREATE VIEW EMP_COUNTRY AS
25 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, COUNTRY, SALARY
26 FROM emp_record_table
27 WHERE SALARY>5000;
28 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EXP FROM emp_record_table
29 WHERE EXP IN (SELECT EXP FROM emp_record_table WHERE EXP>3);

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	ROLE	DEPT	EXP
E001	Arthur	Black	PRESIDENT	ALL	20
E005	Eric	Hoffman	LEAD DATA SCIENTIST	FINANCE	11
E010	William	Butler	LEAD DATA SCIENTIST	AUTOMOTIVE	12
E052	Dianna	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	6
E057	Dorothy	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	9
E083	Patrick	Voltz	MANAGER	HEALTHCARE	15

Information

Table: emp_record_table

Columns:

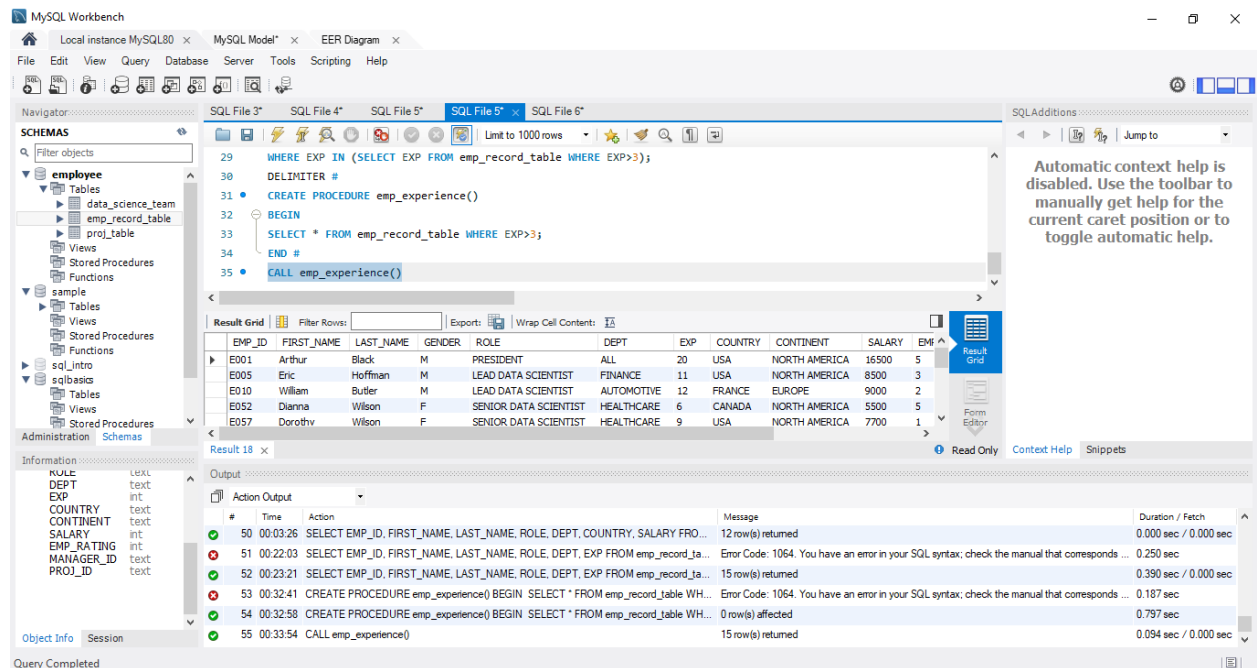
- EMP_ID text
- FIRST_NAME text
- LAST_NAME text
- GENDER text
- ROLE text
- DEPT text
- EXP int

Object Info Session

Query Completed

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

13. Write a query to create a stored procedure to retrieve the details of the employees whose experience is more than three years. Take data from the employee record table.



14. Write a query using stored functions in the project table to check whether the job profile assigned to each employee in the data science team matches the organization's set standard.

The standard being:

For an employee with experience less than or equal to 2 years assign 'JUNIOR DATA SCIENTIST',

For an employee with the experience of 2 to 5 years assign 'ASSOCIATE DATA SCIENTIST',

For an employee with the experience of 5 to 10 years assign 'SENIOR DATA SCIENTIST',

For an employee with the experience of 10 to 12 years assign 'LEAD DATA SCIENTIST',

For an employee with the experience of 12 to 16 years assign 'MANAGER'.

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Information

Table: data_science_team

Columns:

EMP_ID text

FIRST_NAME text

LAST_NAME text

GENDER text

ROLE text

DEPT text

EXP int

COUNTRY text

FUNCTION text

Object Info Session

SQL File 3* SQL File 4* SQL File 5* project 1* SQL File 6*

Limit to 1000 rows

41 IF EXP<=2 THEN SET emp_role_match='JUNIOR DATA SCIENTIST';

42 ELSEIF EXP<=5 THEN SET emp_role_match='ASSOCIATE DATA SCIENTIST';

43 ELSEIF EXP<=10 THEN SET emp_role_match='SENIOR DATA SCIENTIST';

44 ELSEIF EXP<=12 THEN SET emp_role_match='LEAD DATA SCIENTIST';

45 ELSEIF EXP>12 THEN SET emp_role_match='MANAGER';

46 END IF; RETURN (emp_role_match); END \$ DELIMITER \$;

47 SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT, emp_role_match(EXP) AS DESIGNATION FROM data_science_team

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	DEPT	DESIGNATION
E640	Jennifer	Jones	RETAIL	JUNIOR DATA SCIENTIST
E620	Katrina	Allen	RETAIL	JUNIOR DATA SCIENTIST
E478	David	Smith	RETAIL	ASSOCIATE DATA SCIENTIST
E532	Claire	Brennan	AUTOMOTIVE	ASSOCIATE DATA SCIENTIST
E403	Steve	Hoffman	FINANCE	ASSOCIATE DATA SCIENTIST
E505	Chad	Wilson	HEALTHCARE	ASSOCIATE DATA SCIENTIST
E052	Dianna	Wilson	HEALTHCARE	SENIOR DATA SCIENTIST

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	14:03:19	SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT, emp_role_match(EXP) AS DE...	Error Code: 1305. FUNCTION employee.emp_role_exp_match does not exist	0.078 sec
5	14:03:55	CREATE FUNCTION emp_role_exp_match(experience int) RETURNS VARCHAR(3000) DE...	0 row(s) affected	0.062 sec
6	14:03:55	SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT, emp_role_exp_match(EXP) AS DE...	Error Code: 1054. Unknown column 'EXP' in field list	0.078 sec
7	14:04:41	CREATE FUNCTION emp_role_exp_match(EXP int) RETURNS VARCHAR(3000) DETERM...	Error Code: 1304. FUNCTION emp_role_exp_match already exists	0.000 sec
8	14:06:13	CREATE FUNCTION emp_role_exp_match(EXP int) RETURNS VARCHAR(3000) DETERMIS...	0 row(s) affected	0.078 sec
9	14:06:13	SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT, emp_role_exp_match(EXP) AS DESIGN...	13 row(s) returned	0.000 sec / 0.000 sec

Read Only Context Help Snippets

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

15. Create an index to improve the cost and performance of the query to find the employee whose FIRST_NAME is 'Eric' in the employee table after checking the execution plan.

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Information

Table: emp_record_table

Columns:

EMP_ID text

FIRST_NAME text

LAST_NAME text

GENDER text

ROLE text

DEPT text

EXP int

COUNTRY text

FUNCTION text

Object Info Session

SQL File 3* SQL File 4* SQL File 5* project 1* SQL File 6*

Limit to 1000 rows

46 END IF; RETURN (emp_role_match); END \$ DELIMITER \$;

47 SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT, emp_role_match(EXP) AS DESIGNATION FROM data_science_team

48 ORDER BY EXP;

49 CREATE INDEX idx1 ON emp_record_table(FIRST_NAME(255));

50 EXPLAIN SELECT EMP_ID, ROLE, DEPT, EXP FROM emp_record_table

51 WHERE FIRST_NAME='Eric';

52

Result Grid

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	emp_record_table		ref	idx1	idx1	1023	const	1	100.00	Using where

Output

Action Output

#	Time	Action	Message	Duration / Fetch
24	15:57:39	CREATE INDEX idx1 ON emp_record_table(ROLE)	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
25	16:01:08	CREATE INDEX idx1 ON emp_record_table(FIRST_NAME)	Error Code: 1170. BLOB/TEXT column 'FIRST_NAME' used in key specification without a k...	0.031 sec
26	16:04:04	CREATE INDEX idx2 ON employee.emp_record_table(EMP_ID)	Error Code: 1170. BLOB/TEXT column 'EMP_ID' used in key specification without a key len...	0.000 sec
27	16:12:31	CREATE INDEX idx2 ON employee.emp_record_table(EMP_ID(255))	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	1.532 sec
28	16:12:53	CREATE INDEX idx1 ON emp_record_table(FIRST_NAME(255))	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.219 sec
29	16:12:53	EXPLAIN SELECT EMP_ID, ROLE, DEPT, EXP FROM emp_record_table WHERE FIRST_...	1 row(s) returned	0.000 sec / 0.000 sec

Read Only Context Help Snippets

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

16. Write a query to calculate the bonus for all the employees, based on their ratings and salaries (Use the formula: 5% of salary * employee rating).

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Information

EMP_ID text

FIRST_NAME text

LAST_NAME text

GENDER text

ROLE text

DEPT text

EXP int

COUNTRY text

CONTINENT text

SALARY int

EMP_RATING int

MANAGER_ID int

PROJ_ID text

Object Info Session

SQL File 3* SQL File 4* SQL File 5* project 1* SQL File 6*

Limit to 1000 rows

48 ORDER BY EXP;

49 CREATE INDEX idx1 ON emp_record_table(FIRST_NAME(255));

50 EXPLAIN SELECT EMP_ID, ROLE, DEPT, EXP FROM emp_record_table

51 WHERE FIRST_NAME='Eric';

52 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, SALARY, EMP_RATING, (0.05*SALARY)*EMP_RATING AS BONUS

53 FROM emp_record_table;

54

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	ROLE	DEPT	SALARY	EMP_RATING	BONUS
E001	Arthur	Black	PRESIDENT	ALL	16500	5	4125.00
E005	Eric	Hoffman	LEAD DATA SCIENTIST	FINANCE	8500	3	1275.00
E010	William	Butler	LEAD DATA SCIENTIST	AUTOMOTIVE	9000	2	900.00
E052	Dianna	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	5500	5	1375.00
E057	Dorothy	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	7700	1	385.00
E083	Patrick	Voltz	MANAGER	HEALTHCARE	9500	5	2375.00
E103	Emily	Grove	MANAGER	FINANCE	10500	4	2100.00

Result 5 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
26	16:04:04	CREATE INDEX idx2 ON employee emp_record_table(EMP_ID)	Error Code: 1170. BLOB/TEXT column 'EMP_ID' used in key specification without a key len...	0.000 sec
27	16:12:31	CREATE INDEX idx2 ON employee emp_record_table(EMP_ID(255))	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	1.532 sec
28	16:12:53	CREATE INDEX idx1 ON emp_record_table(FIRST_NAME(255))	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.219 sec
29	16:12:53	EXPLAIN SELECT EMP_ID, ROLE, DEPT, EXP FROM emp_record_table WHERE FIRST...	1 row(s) returned	0.000 sec / 0.000 sec
30	16:16:09	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, SALARY, EMP_RATING, (5...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.016 sec
31	16:19:28	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, SALARY, EMP_RATING, (0...	19 row(s) returned	0.047 sec / 0.000 sec

SQLAdditions

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

17. Write a query to calculate the average salary distribution based on the continent and country. Take data from the employee record table.

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Information

EMP_ID text

FIRST_NAME text

LAST_NAME text

GENDER text

ROLE text

DEPT text

EXP int

COUNTRY text

CONTINENT text

SALARY int

EMP_RATING int

MANAGER_ID int

PROJ_ID text

Object Info Session

SQL File 3* SQL File 4* SQL File 5* project 1* SQL File 6*

Limit to 1000 rows

50 EXPLAIN SELECT EMP_ID, ROLE, DEPT, EXP FROM emp_record_table

51 WHERE FIRST_NAME='Eric';

52 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, SALARY, EMP_RATING, (0.05*SALARY)*EMP_RATING AS BONUS

53 FROM emp_record_table;

54 SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, COUNTRY, CONTINENT, AVG(SALARY) OVER(PARTITION BY COUNTRY)

55 AS AVERAGE_SALARY_COUNTRY, AVG(SALARY) OVER(PARTITION BY CONTINENT) AS AVERAGE_SALARY_CONTINENT

56 FROM emp_record_table;

Result Grid

NAME	ROLE	DEPT	COUNTRY	CONTINENT	AVERAGE_SALARY_COUNTRY	AVERAGE_SALARY_CONTINENT
SENIOR DATA SCIENTIST	RETAIL	CHINA	ASIA		6500.0000	6250.0000
SENIOR DATA SCIENTIST	RETAIL	INDIA	ASIA		6166.6667	6250.0000
MANAGER	RETAIL	INDIA	ASIA		6166.6667	6250.0000
JUNIOR DATA SCIENTIST	RETAIL	INDIA	ASIA		6166.6667	6250.0000
LEAD DATA SCIENTIST	AUTOMOTIVE	FRANCE	EUROPE		9000.0000	7950.0000
SENIOR DATA SCIENTIST	AUTOMOTIVE	GERMANY	EUROPE		7600.0000	7950.0000

Result 9 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
31	16:19:28	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, SALARY, EMP_RATING, (0...	19 row(s) returned	0.047 sec / 0.000 sec
32	16:34:52	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING, AVG(SALA...	19 row(s) returned	0.094 sec / 0.000 sec
33	16:35:40	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, COUNTRY, CONTINENT A...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.015 sec
34	16:35:55	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, COUNTRY, CONTINENT, ...	19 row(s) returned	0.031 sec / 0.000 sec
35	16:40:06	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, COUNTRY, CONTINENT, ...	19 row(s) returned	0.000 sec / 0.000 sec
36	16:40:36	SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, COUNTRY, CONTINENT, ...	19 row(s) returned	0.000 sec / 0.000 sec

SQLAdditions

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