

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

employee

- Tables
- Views
- Stored Procedures
- Functions

golub

saurabh

sql_basics

sql_basics1

students

- Tables
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

Schema: employee

Query 1 x

```
1 create database employee;  
2  
3  
4  
5  
6 #Create a database named employee, then import data_science_team.csv proj_table.csv  
7 #and emp_record_table.csv into the employee database from the given resources.
```

Limit to 1000 rows

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 18	22:09:15	SHOW DATABASES	OK	0.000 sec
✓ 19	22:09:15	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
✓ 20	22:09:15	SHOW TABLES FROM 'employee' like 'proj_table'	OK	0.000 sec
✓ 21	22:09:18	CREATE TABLE 'employee'. 'proj_table' ('PROJECT_ID' text, 'PROJ_NAME' text, 'DOMAIN' ...	OK	0.000 sec
✓ 22	22:09:18	PREPARE stmt FROM 'INSERT INTO 'employee'. 'proj_table' ('PROJECT_ID', 'PROJ_NAME'...	OK	0.000 sec
✓ 23	22:09:18	DEALLOCATE PREPARE stmt	OK	0.000 sec

Object Info Session

Type here to search

29°C

10:10 PM
10/3/2022

MySQL Workbench

Local instance MySQL80

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Navigator

SCHEMAS

Filter objects

employee

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Administration Schemas

Information

Schema: employee

Query 1

Limit to 1000 rows

9

10

11

12

13

14

15

16

17 #Create an ER diagram for the given employee database.

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Tables_in_employee

- data_science_team
- emp_record_table
- proj_table

Result 17

Output

Action Output

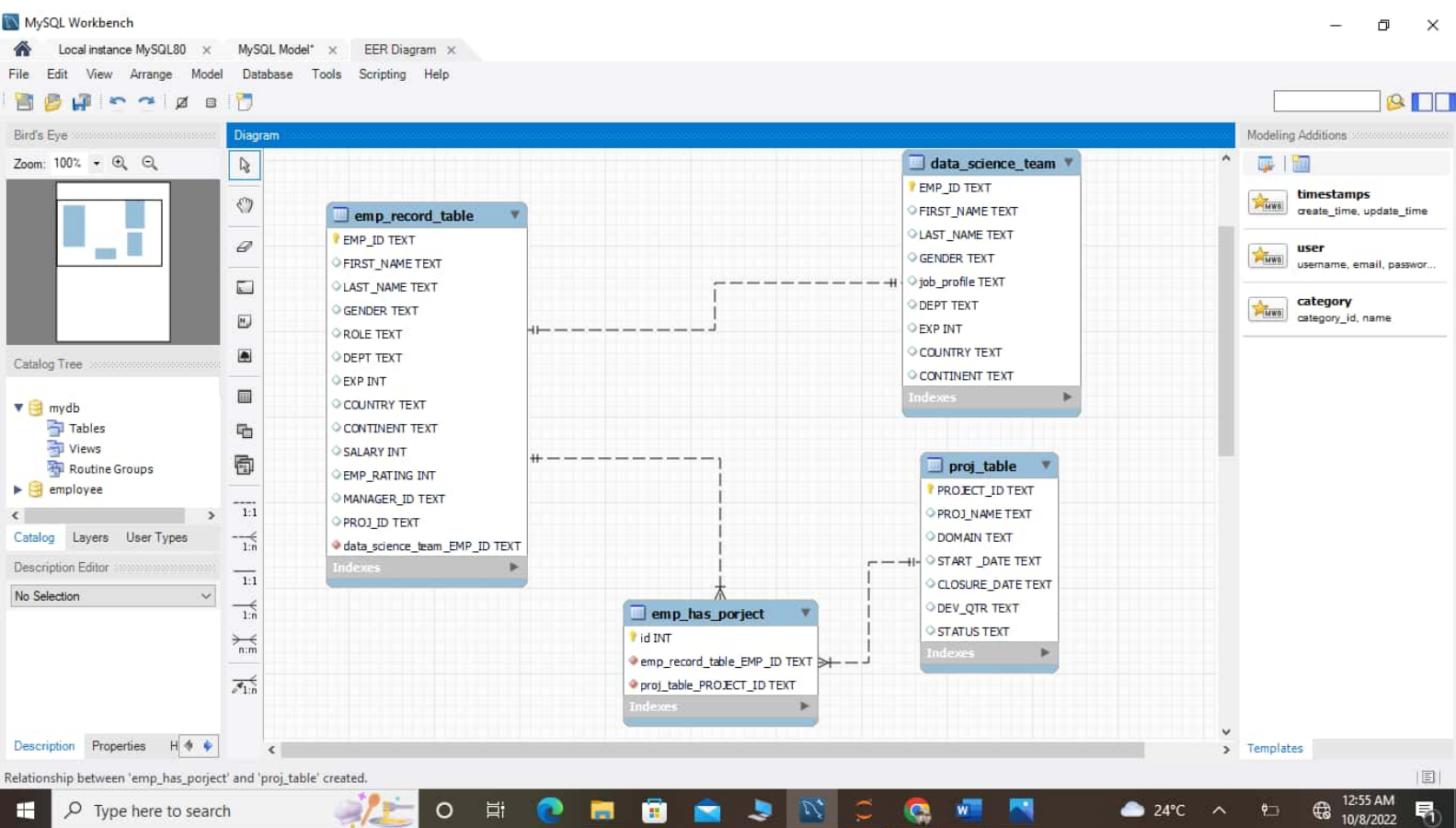
#	Time	Action	Message	Duration / Fetch
19	22:09:15	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
20	22:09:15	SHOW TABLES FROM 'employee' like 'proj_table'	OK	0.000 sec
21	22:09:18	CREATE TABLE 'employee'.'proj_table' ('PROJECT_ID' text, 'PROJ_NAME' text, 'DOMAIN...	OK	0.000 sec
22	22:09:18	PREPARE stmt FROM 'INSERT INTO 'employee'.'proj_table' ('PROJECT_ID','PROJ_NAM...	OK	0.000 sec
23	22:09:18	DEALLOCATE PREPARE stmt	OK	0.000 sec
24	22:11:51	show tables	3 row(s) returned	0.047 sec / 0.000 sec

Object Info Session

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29°C

10:12 PM 10/3/2022



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

Limit to 1000 rows

```
1 #Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, and DEPARTMENT from the employee record table,
2 # and make a list of employees and details of their department.
3
4 • select EMP_ID, FIRST_NAME, LAST_NAME, GENDER,DEPT from emp_record_table;
5 #select EMP_ID ,DEPT from emp_record_table;
6
7
8
9
```

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

emp_record_table 32 x emp_record_table 33

Output

Action Output

#	Time	Action	Message	Duration / Fetch
35	22:23:32	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER,DEPT from emp_record_table grou...	5 row(s) returned	0.000 sec / 0.000 sec
36	22:23:51	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER,DEPT from emp_record_table #gr...	19 row(s) returned	0.000 sec / 0.000 sec
37	22:46:06	show tables #select EMP_ID, FIRST_NAME, LAST_NAME, GENDER,DEPT from emp_rec...	3 row(s) returned	0.000 sec / 0.000 sec
38	22:49:16	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER,DEPT from emp_record_table LIM...	19 row(s) returned	0.000 sec / 0.000 sec
39	22:50:13	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER,DEPT from emp_record_table LIM...	19 row(s) returned	0.000 sec / 0.000 sec
40	22:50:13	select EMP_ID, ,DEPT from emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Schema: employee

Administration Schemas Information

Object Info Session

Type here to search

29°C 10:53 PM 10/3/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

Limit to 1000 rows

1 #Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT, and EMP_RATING if the EMP_RATING is:
2 #less than two
3 #greater than four
4 #between two and four
5
6
7 • select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT,EMP_RATING from emp_record_table
8 where EMP_RATING <2;
9

Result Grid

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

emp_record_table 35 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
37	22:46:06	show tables #select EMP_ID, FIRST_NAME, LAST_NAME, GENDER,DEPT from emp_rec...	3 row(s) returned	0.000 sec / 0.000 sec
38	22:49:16	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER,DEPT from emp_record_table LIM...	19 row(s) returned	0.000 sec / 0.000 sec
39	22:50:13	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER,DEPT from emp_record_table LIM...	19 row(s) returned	0.000 sec / 0.000 sec
40	22:50:13	select EMP_ID,DEPT from emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
41	22:56:15	show tables	3 row(s) returned	0.000 sec / 0.000 sec
42	22:57:21	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT,EMP_RATING from emp_re...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Schema: employee

Administration Schemas

Information

Type here to search

29°C 10:57 PM 10/3/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

Limit to 1000 rows

1 #Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT, and EMP_RATING if the EMP_RATING is:
2 #less than two
3 #greater than four
4 #between two and four
5
6
7 • select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_record_table
8 where EMP_RATING > 4;
9

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 37 emp_record_table 38 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 40	22:50:13	select EMP_ID, DEPT from emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
✓ 41	22:56:15	show tables	3 row(s) returned	0.000 sec / 0.000 sec
✓ 42	22:57:21	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_re...	3 row(s) returned	0.000 sec / 0.000 sec
✓ 43	22:57:39	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_re...	4 row(s) returned	0.000 sec / 0.000 sec
✓ 44	22:59:08	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_re...	4 row(s) returned	0.000 sec / 0.000 sec
✓ 45	22:59:08	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_re...	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Schema: employee

Read Only

Type here to search

29°C 10:59 PM 10/3/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

employee

Tables

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Functions

golub

saurabh

sql_basics

sql_basics1

students

Tables

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Functions

Administration Schemas

Information

Schema: employee

Object Info Session

Query 1 x

Limit to 1000 rows

```
1 #Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT, and EMP_RATING if the EMP_RATING is:
2 #less than two
3 #greater than four
4 #between two and four
5
6
7 • select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_record_table
8 where EMP_RATING between 2 and 4;
9
```

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

emp_record_table 39 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
41	22:56:15	show tables	3 row(s) returned	0.000 sec / 0.000 sec
42	22:57:21	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_re...	3 row(s) returned	0.000 sec / 0.000 sec
43	22:57:39	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_re...	4 row(s) returned	0.000 sec / 0.000 sec
44	22:59:08	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_re...	4 row(s) returned	0.000 sec / 0.000 sec
45	22:59:08	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_re...	4 row(s) returned	0.000 sec / 0.000 sec
46	22:59:20	select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING from emp_re...	12 row(s) returned	0.047 sec / 0.000 sec

Type here to search

29°C

10:59 PM 10/3/2022

MySQL Workbench

Local instance MySQL80 x

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Navigator

SCHEMAS

Filter objects

employee

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golu

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saurabh

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sql_basics

sql_basics1

students

Administration Schemas

Information

No object selected

Query 1 x

Limit to 1000 rows

```
1 #Write a query to concatenate the FIRST_NAME and the LAST_NAME of employees in the Finance department from the employee table
2 #and then give the resultant column alias as NAME.
3
4 select concat(first_name,' ',last_name) as name_ from emp_record_table
5 where dept= 'finance' ;
6
7
8
9
```

Result Grid

name_
Eric Hoffman
Emily Grove
Steve Hoffman

Result 5 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	12:40:04	use saurabh	0 row(s) affected	0.000 sec
4	12:40:16	show tables	4 row(s) returned	0.000 sec / 0.000 sec
5	12:41:09	select 'sa' + 'ur' LIMIT 0, 1000	1 row(s) returned	0.125 sec / 0.000 sec
6	12:44:55	use employee	0 row(s) affected	0.016 sec
7	12:46:53	select concat(first_name,last_name) as name_ from emp_record_table where dept= finance...	3 row(s) returned	0.953 sec / 0.000 sec
8	12:47:21	select concat(first_name,' ',last_name) as name_ from emp_record_table where dept= finan...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Type here to search

28°C Haze

12:47 PM 10/4/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

SCHEMAS

Filter objects

e_r

- Tables
- Views
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employee

- Tables
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golu

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sql_basics

sql_basics1

students

Administration Schemas

Information

Schema: e_r

Object Info Session

Query 1 x

Limit to 1000 rows

```
7 #update emp_record_table set bonus= 5% of salary * employee rating
8
9 #select * from proj_table
10 #select * from data_science_team
11
12
13
14
15 /*Write a query to list only those employees who have someone reporting to them. Also,
16 show the number of reporters (including the President).*/
17
18 • select emp_id,first_name,last_name,role,dept,count(emp_id) as emp_repoeting from emp_record_table
19 inner join emp_record_table e
20 on emp_id =manager_id
21 and emp_id!=manager_id
22 where role in("manager","president","ceo")
23 group by emp_id
24 order by emp_id;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

Query interrupted

Type here to search

24°C

11:32 PM 10/7/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

Limit to 1000 rows

```
1 #Write a query to list down all the employees from the healthcare and finance departments using union.
2 # Take data from the employee record table.
3
4 select * from emp_record_table where dept = 'healthcare'
5 union
6 select * from emp_record_table where dept = 'finance';
7
8
9
```

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	ROLE	DEPT	EXP	COUNTRY	CONTINENT	SALARY	EMP_RATING	MANAGER_ID	PROJ_ID
E052	Dianna	Wilson	F	SENIOR DATA SCIENTIST	HEALTHCARE	6	CANADA	NORTH AMERICA	5500	5	E083	P103
E057	Dorothy	Wilson	F	SENIOR DATA SCIENTIST	HEALTHCARE	9	USA	NORTH AMERICA	7700	1	E083	P302
E083	Patrick	Voltz	M	MANAGER	HEALTHCARE	15	USA	NORTH AMERICA	9500	5	E001	MANA
E505	Chad	Wilson	M	ASSOCIATE DATA SCIENTIST	HEALTHCARE	5	CANADA	NORTH AMERICA	5000	2	E083	P103
E005	Eric	Hoffman	M	LEAD DATA SCIENTIST	FINANCE	11	USA	NORTH AMERICA	8500	3	E103	P105

Result 23 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
21	13:20:01	select FIRST_NAME , ROLE ,EXP from emp_record_table where exp >5	#select * from d... 13 row(s) returned	0.015 sec / 0.000 sec
22	13:20:17	select *from emp_record_table where exp >5	#select *from data_science_team #selec... 13 row(s) returned	0.000 sec / 0.000 sec
23	13:20:37	select FIRST_NAME , ROLE ,EXP from emp_record_table where exp >5	#select * from d... 13 row(s) returned	0.000 sec / 0.000 sec
24	13:34:35	show tables	3 row(s) returned	0.016 sec / 0.000 sec
25	13:35:42	select * from emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
26	13:39:47	select * from emp_record_table where dept = 'healthcare' union select * from emp_record_ta...	7 row(s) returned	0.125 sec / 0.000 sec

Object Info Session

No object selected

Type here to search

28°C 1:41 PM 10/4/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

employee

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gol

Tables

Views

Stored Procedures

Functions

saurabh

Tables

Views

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Functions

sql_basics

sql_basics1

students

Administration Schemas

No object selected

Query 1 x

Limit to 1000 rows

```
1 #Write a query to list down employee details such as EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPARTMENT, and EMP_RATING grouped by dept.
2 #Also include the respective employee rating along with the max emp rating for the department.
3
4 select EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING ,max(EMP_RATING ) from emp_record_table
5 group by dept
6
7
8
9
```

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	ROLE	DEPT	EMP_RATING	max(EMP_RATING)
E001	Arthur	Black	PRESIDENT	ALL	5	5
E005	Eric	Hoffman	LEAD DATA SCIENTIST	FINANCE	3	4
E010	William	Butler	LEAD DATA SCIENTIST	AUTOMOTIVE	2	5
E052	Dianna	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	5	5

Result 31 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
30	13:53:20	select EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING ,max(EMP_RA...	5 row(s) returned	0.047 sec / 0.000 sec
31	13:55:13	select max(EMP_RATING)from emp_record_table LIMIT 0, 1000	1 row(s) returned	0.015 sec / 0.000 sec
32	13:55:43	select dept,max(EMP_RATING)from emp_record_table LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
33	13:55:57	select *max(EMP_RATING)from emp_record_table LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
34	13:56:18	select EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING ,max(EMP_RA...	1 row(s) returned	0.016 sec / 0.000 sec
35	13:56:25	select EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPT, EMP_RATING ,max(EMP_RA...	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Type here to search

28°C

1:56 PM 10/4/2022

MySQL Workbench

Local instance MySQL80 x

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Navigator

SCHEMAS

Filter objects

employee

Tables

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golu

Tables

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Functions

saurabh

Tables

Views

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sql_basics

sql_basics1

students

Administration Schemas

Information

No object selected

Query 1 x

Limit to 1000 rows

```
1 Write a query to calculate the minimum and the maximum salary of the employees in each role.
2 #Take data from the employee record table.
3 select role,max(salary),min(salary)from emp_record_table
4 group by role;
```

Result Grid

role	max(salary)	min(salary)
PRESIDENT	16500	16500
LEAD DATA SCIENTIST	9000	8500
SENIOR DATA SCIENTIST	7700	5500
MANAGER	11000	8500
ASSOCIATE DATA SCIENTIST	5000	4000

Result 37 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
36	13:57:34	select *from emp_record_table #select *from data_science_team #select *from proj_table ...	19 row(s) returned	0.000 sec / 0.000 sec
37	14:02:07	select max(salary),min(salary)from emp_record_table LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
38	14:02:25	select *from emp_record_table #select *from data_science_team #select *from proj_table ...	19 row(s) returned	0.000 sec / 0.000 sec
39	14:03:19	select max(salary),min(salary)from emp_record_table group by role LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
40	14:03:43	select *from emp_record_table #select *from data_science_team #select *from proj_table ...	19 row(s) returned	0.000 sec / 0.000 sec
41	14:04:07	select role,max(salary),min(salary)from emp_record_table group by role LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Type here to search

28°C

2:04 PM 10/4/2022

MySQL Workbench

Local instance MySQL80 x

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Navigator

SCHEMAS

Filter objects

employee

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golu

saurabh

sql_basics

sql_basics1

students

Query 1 x

Limit to 1000 rows

```
1 #Write a query to assign ranks to each employee based on their experience.
2 #Take data from the employee record table.
3 • select first_name , rank() over(order by exp) as rnk
4 from emp_record_table ;
5
6
7
8
9
```

Result Grid

	first_name	rnk
▶	Jenifer	1
	Katrina	2
	David	3
	Claire	3
	Steve	5

Result 4 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	16:32:46	select * from emp_record_table LIMIT 0, 1000	19 row(s) returned	0.140 sec / 0.000 sec
✓ 2	16:50:58	select first_name , rank() over(order by exp) from emp_record_table	19 row(s) returned	0.062 sec / 0.000 sec
✓ 3	16:52:27	select first_name , dense_rank() over(order by exp) from emp_record_table	19 row(s) returned	0.046 sec / 0.000 sec
✓ 4	16:52:56	select first_name , rank() over(order by exp) as rnk from emp_record_table	19 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Type here to search

32°C Haze 4:54 PM 10/4/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

Limit to 1000 rows

SCHEMAS

Filter objects

e_r

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- Views
- Stored Procedures
- Functions
- employee
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 - Functions
- golu
- saurabh
- sql_basics
- sql_basics1
- students

Administration Schemas

Information

Schema: e_r

```
1
2
3
4 #select * from proj_table
5 #select * from data_science_team
6
7
8
9
10 /*Write a query to create a view that displays employees in various countries whose salary is more than six thousand.
11 Take data from the employee record table.*/
12
13 • create view e_view as
14 select * from emp_record_table where salary >6000;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
6	23:40:54	select * from emp_record_table where dept in ('healthcare','finance') union select * from emp_...	7 row(s) returned	0.000 sec / 0.000 sec
7	23:46:20	show tables	3 row(s) returned	0.000 sec / 0.000 sec
8	23:47:06	create view e_view as select * from emp_record_table where salary >6000	0 row(s) affected	0.422 sec
9	23:47:17	create view e_view as select * from emp_record_table where salary >6000	Error Code: 1050 Table 'e_view' already exists	0.000 sec

Object Info Session

Query interrupted

Type here to search

24°C

11:48 PM 10/7/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

SCHEMAS

Filter objects

▼ e_r

- Tables
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▼ employee

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▼ golu

▼ sauraabh

▼ sql_basics

▼ sql_basics1

▼ students

Administration Schemas

Information

Schema: e_r

Query 1

```
/*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.*/

/*create view e_view as
select * from emp_record_table where salary >6000;*/

select * from e_r.e_view;
```

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	ROLE	DEPT	EXP	COUNTRY	CONTINENT	SALARY	EMP_RATING	MANAGER_ID	PROJ_ID
E001	Arthur	Black	M	PRESIDENT	ALL	20	USA	NORTH AMERICA	16500	5	NULL	NULL
E005	Eric	Hoffman	M	LEAD DATA SCIENTIST	FINANCE	11	USA	NORTH AMERICA	8500	3	E103	P105
E010	William	Butler	M	LEAD DATA SCIENTIST	AUTOMOTIVE	12	FRANCE	EUROPE	9000	2	E428	P204
E057	Dorothy	Wilson	F	SENIOR DATA SCIENTIST	HEALTHCARE	9	USA	NORTH AMERICA	7700	1	E083	P302
E083	Patrick	Voltz	M	MANAGER	HEALTHCARE	15	USA	NORTH AMERICA	9500	5	E001	NULL

Output

Action Output

#	Time	Action	Message	Duration / Fetch
11	23:48:50	select * from emp_record_table.e_view LIMIT 0, 1000	Error Code: 1049. Unknown database 'emp_record_table'	0.000 sec
12	23:49:04	select * from employee.e_view LIMIT 0, 1000	Error Code: 1146. Table 'employee.e_view' doesn't exist	0.031 sec
13	23:49:14	select * from e_r.e_view LIMIT 0, 1000	select * from employee.e_view LIMIT 0, 1000	0.031 sec / 0.000 sec

Object Info Session

Query Completed

Type here to search

24°C

11:49 PM 10/7/2022

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- employee
 - Tables
 - Views
 - Stored Procedures
 - Functions
- golub
- saureabh
- sql_basics
- sql_basics1
- students

Administration Schemas

Information

No object selected

Object Info Session

Query 1

Limit to 1000 rows

```
14
15
16 #Write a nested query to find employees with experience of more than ten years.
17 #Take data from the employee record table.
18
19 • select * from emp_record_table where exp > (select exp>10);
```

Result Grid

	EMP_ID	FIRST_NAME	LAST_NAME	GENDER	ROLE	DEPT	EXP	COUNTRY	CONT
▶	E001	Arthur	Black	M	PRESIDENT	ALL	20	USA	NORTI
	E005	Eric	Hoffman	M	LEAD DATA SCIENTIST	FINANCE	11	USA	NORTI
	E010	William	Butler	M	LEAD DATA SCIENTIST	AUTOMOTIVE	12	FRANCE	EUROI
	E052	Dianna	Wilson	F	SENIOR DATA SCIENTIST	HEALTHCARE	6	CANADA	NORTI

emo record table 7

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 6	01:51:03	select * from data_science_team LIMIT 0, 1000	13 row(s) returned	0.063 sec / 0.000 sec
✓ 7	01:51:17	select * from emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
✓ 8	01:55:42	select * from emp_record_table where exp > (sele...	19 row(s) returned	0.047 sec / 0.000 sec

salary is higher than the salary of the shipping clerks (JOB_ID = HP122) and sort the results in the ascending order of the salary

Free 7-Day Trial

COMMUNITY HELP NOTES

of the employees in each role. Take data

experience. Take data from the employee

countries whose salary is more than six

than ten years. Take data from the

of the employees whose experience is

e.

ck whether the job profile assigned to

only not standard

SUBMIT

Type here to search

25°C

1:55 AM 10/6/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

employee

Tables

Views

Stored Procedures

Functions

golu

saurabh

Tables

Views

Stored Procedures

Functions

sql_basics

sql_basics1

students

Tables

Views

Stored Procedures

Functions

Administration Schemas

Information

Schema: saurabh

Query 1 x

Limit to 1000 rows

```
1 #Write a query to create a stored procedure to retrieve the details of the employees whose experience is more than three years.
2 #Take data from the employee record table.
3 delimiter &&
4 create procedure getexp()
5 begin
6 select * from emp_record_table where exp>3;
7 end &&
8 call getexp();
9
```

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	ROLE	DEPT	EXP	COUNTRY	CONTINENT	SALARY	EMP_RATING	MANAGER_ID	PROJ_ID
E001	Arthur	Black	M	PRESIDENT	ALL	20	USA	NORTH AMERICA	16500	5	E103	P105
E005	Eric	Hoffman	M	LEAD DATA SCIENTIST	FINANCE	11	USA	NORTH AMERICA	8500	3	E428	P204
E010	William	Butler	M	LEAD DATA SCIENTIST	AUTOMOTIVE	12	FRANCE	EUROPE	9000	2	E083	P103
E052	Dianna	Wilson	F	SENIOR DATA SCIENTIST	HEALTHCARE	6	CANADA	NORTH AMERICA	5500	5	E083	P302
E057	Dorothy	Wilson	F	SENIOR DATA SCIENTIST	HEALTHCARE	9	USA	NORTH AMERICA	7700	1	E083	P302

Result 11 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
18	14:51:45	show tables #Write a query to create a stored procedure to retrieve the details of the employ...	4 row(s) returned	0.016 sec / 0.000 sec
19	14:52:17	use employee #Write a query to create a stored procedure to retrieve the details of the emplo...	0 row(s) affected	0.000 sec
20	14:52:28	show tables #use employee #Write a query to create a stored procedure to retrieve the detail...	3 row(s) returned	0.015 sec / 0.000 sec
21	14:52:42	select * from emp_record_table #show tables #use employee #Write a query to create a stor...	19 row(s) returned	0.406 sec / 0.000 sec
22	14:56:25	create procedure getexp() begin select * from emp_record_table where exp>3; end	0 row(s) affected	0.093 sec
23	14:56:25	call getexp();	15 row(s) returned	0.032 sec / 0.000 sec

Object Info Session

Type here to search

32°C Haze

2:56 PM 10/5/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

e_r

Tables

Views

Stored Procedures

Functions

employee

Tables

Views

Stored Procedures

Functions

golub

saurabh

sql_basics

sql_basics1

students

Administration Schemas

Information

Schema: e_r

Query 1

Limit to 1000 rows

```
10 /*Write a query using stored functions in the project table to check whether the job profile assigned to each employee in
11 the data science team matches the organization's set standard.*/
12 delimiter &&
13 drop function if exists employee.get_role;
14 create function get_role(exp_emp,int)
15 returns varchar(2000) deterministic
16 begin declare get_role varchar(2000);
17
18 if exp_emp <=2 then set get_role = 'JUNIOR DATA SCIENTIST';
19 elseif exp_emp between 2 and 5 then set get_role = 'ASSOCIATE DATA SCIENTIST';
20 elseif exp_emp between 5 and 10 then set get_role = 'SENIOR DATA SCIENTIST';
21 elseif exp_emp between 10 and 12 then set get_role = 'LEAD DATA SCIENTIST';
22 elseif exp_emp between 12 and 16 then set get_role = 'MANAGER';
23 else set get_role = "invalid";
24 end if;return (get_role);
25 end &&
26 delimiter &&
27 select first_name,last_name,exp_emp,jop_profile,get_role(exp_emp)as e_profile from data_science_team order by exp_emp;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

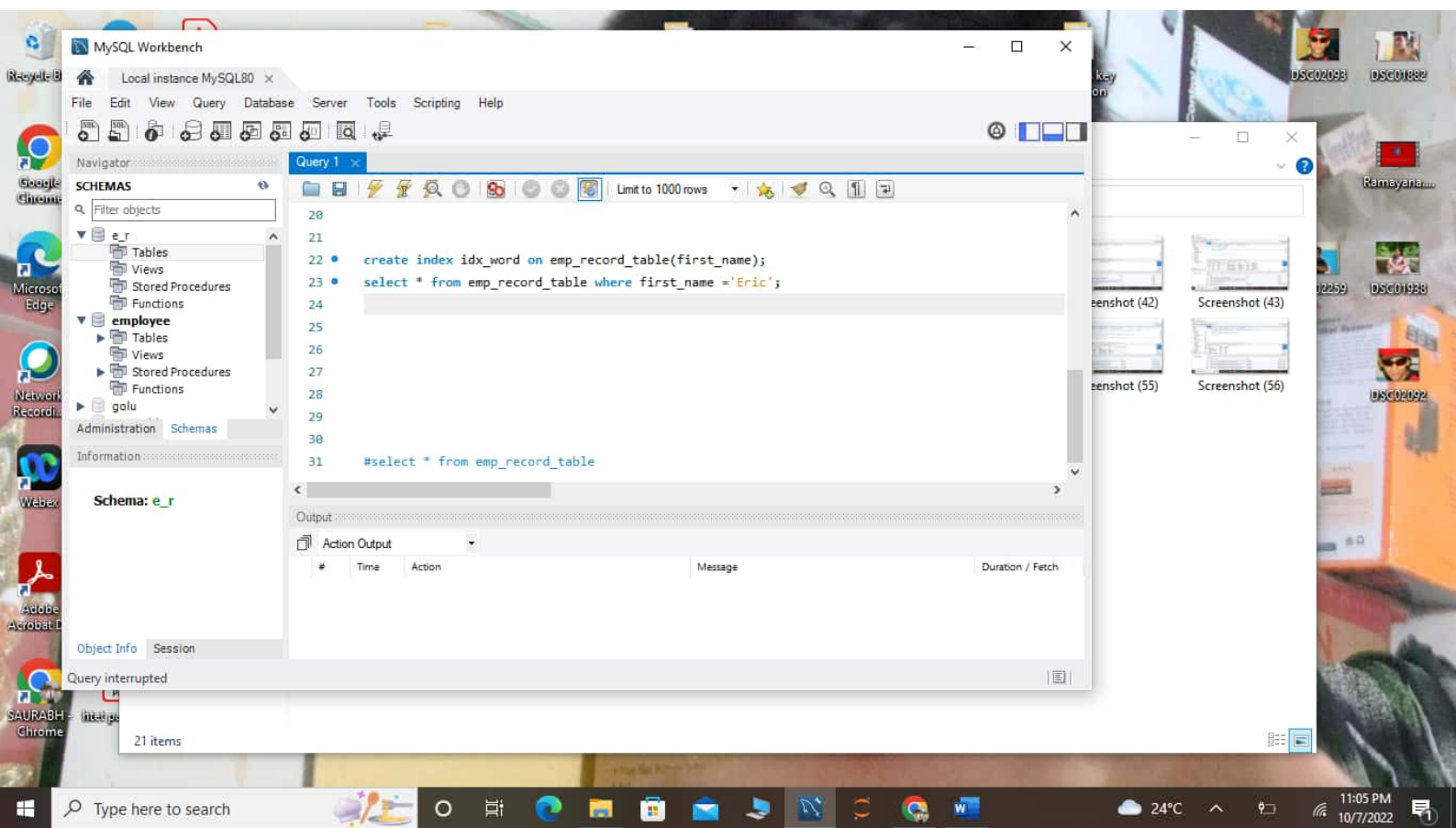
Object Info Session

Executing Query...

Type here to search

24°C

12:32 AM 10/8/2022



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

Limit to 1000 rows

SCHEMAS

Filter objects

Tables Views Stored Procedures Functions

employee

Tables Views Stored Procedures Functions

golub saurabh sql_basics1 students

Administration Schemas Information

Schema: e_r

```
13
14
15
16
17
18
19 #Write a query to calculate the bonus for all the employees, based on their ratings and salaries
20 #(Use the formula: 5% of salary * employee rating).
21 • select *, 0.05*salary*emp_rating as BONUS from emp_record_table order by BONUS;
22 • select *, sum(0.05*salary*emp_rating) as BONUS_TOTAL from emp_record_table ;
23 #select * from emp_record_table
```

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	ROLE	DEPT	EXP	COUNTRY	CONTINENT	SALARY	EMP_RATING	MANAGER_ID	PROJ_ID	BONUS_TOTAL
E001	Arthur	Black	M	PRESIDENT	ALL	20	USA	NORTH AMERICA	16500	5			23985.00

Result 10 Result 11 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
34	22:47:06	select *, 0.05*salary*emp_rating as BONUS from emp_record_table #select * from emp_reco...	19 row(s) returned	0.000 sec / 0.000 sec
35	22:49:22	select *, 0.05*salary*emp_rating as BONUS from emp_record_table order by BONUS LIMIT 0...	19 row(s) returned	0.016 sec / 0.000 sec
36	22:49:22	select *, sum(0.05*salary*emp_rating) as BONUS_TOTAL from emp_record_table LIMIT 0, 1...	1 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

Query Completed

Type here to search

24°C 10:50 PM 10/7/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

SCHEMAS

Filter objects

e_r

Tables

Views

Stored Procedures

Functions

employee

Tables

Views

Stored Procedures

Functions

golu

saurabh

sql_basics

students

Administration Schemas

Information

Schema: e_r

Query 1 x

Limit to 1000 rows

14

15

16

17

18

19

20 #Write a query to calculate the average salary distribution based on the continent and country.

21 #Take data from the employee record table.

22 • select country , continent , avg(salary) over(partition by country), avg (salary)over(partition by continent) from emp_record_table

23

Result Grid

Filter Rows:

Exports:

Wrap Cell Contents:

country	continent	avg(salary) over(partition by country)	avg (salary)over(partition by continent)
CHINA	ASIA	6500.0000	6250.0000
INDIA	ASIA	6166.6667	6250.0000
INDIA	ASIA	6166.6667	6250.0000
INDIA	ASIA	6166.6667	6250.0000

Result 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
27	22:34:21	select * from emp_record_table LIMIT 0, 1000	19 row(s) returned	0.015 sec / 0.000 sec
28	22:35:43	select country , continent , avg(salary) from emp_record_table group by country ,continent LI...	7 row(s) returned	0.016 sec / 0.000 sec
29	22:39:31	select country , continent , avg(salary) over(partition by country), avg (salary)over(partition by ...	19 row(s) returned	0.047 sec / 0.000 sec

Object Info Session

Query Completed

Type here to search

24°C

10:40 PM 10/7/2022