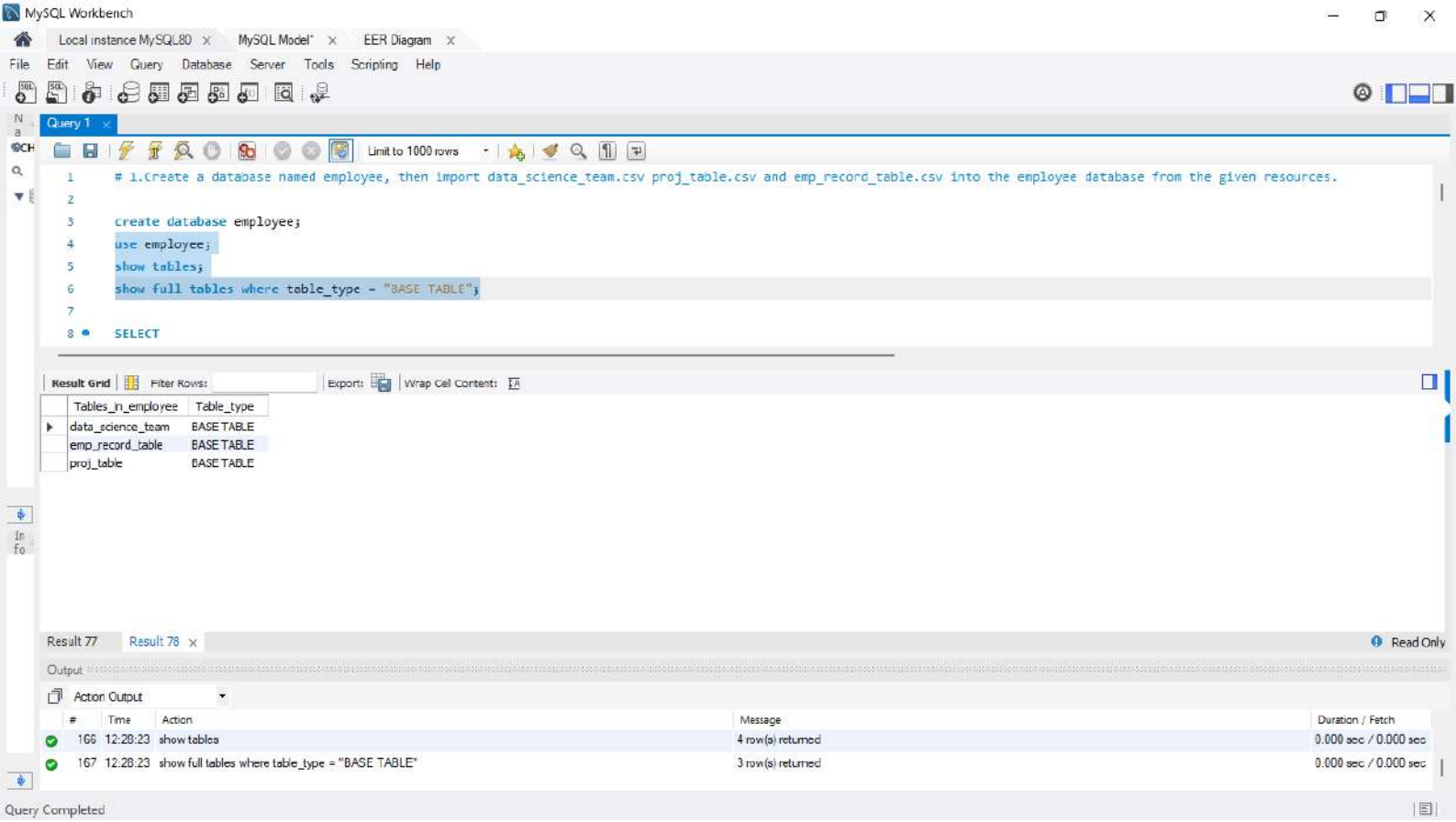
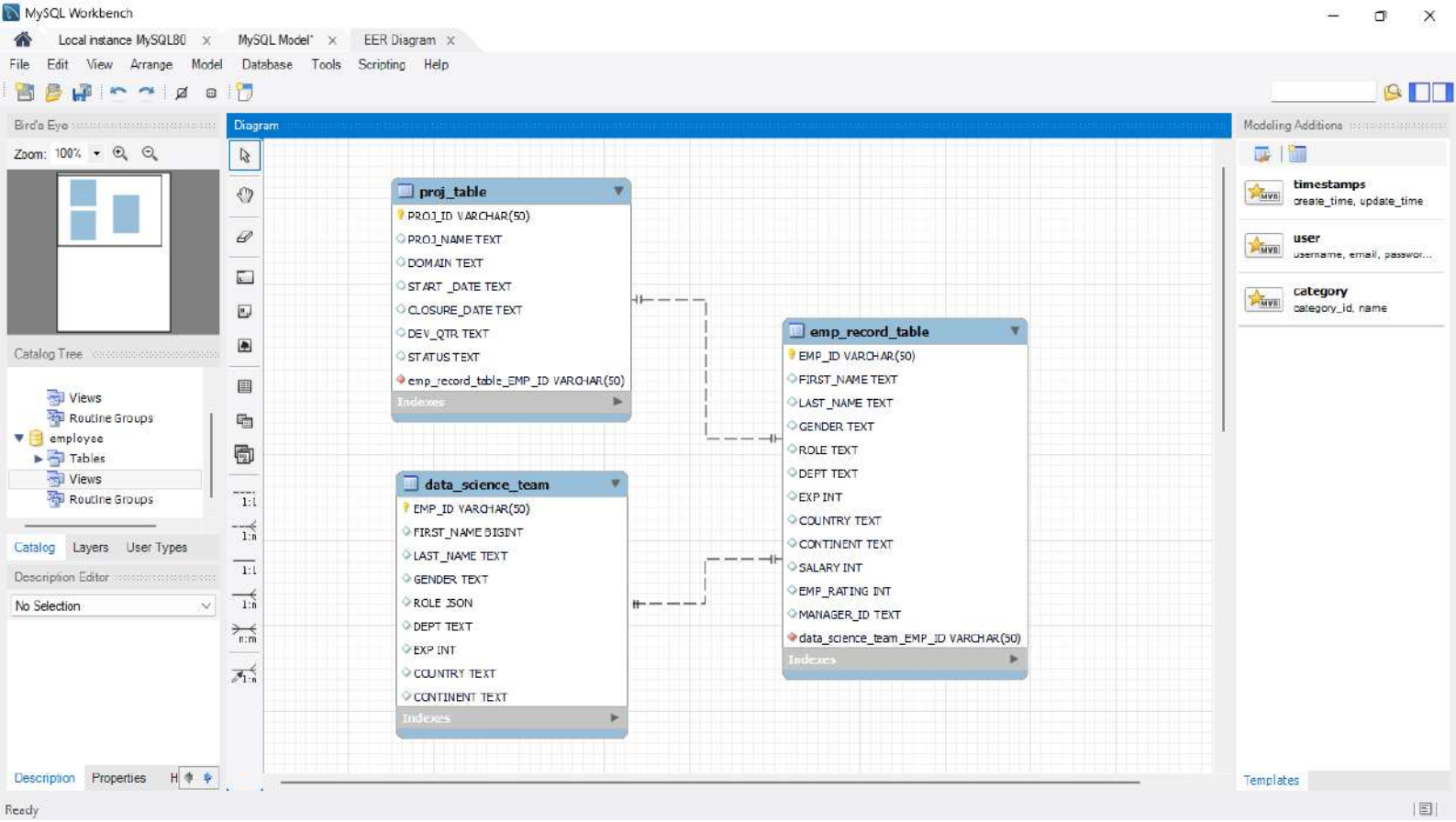
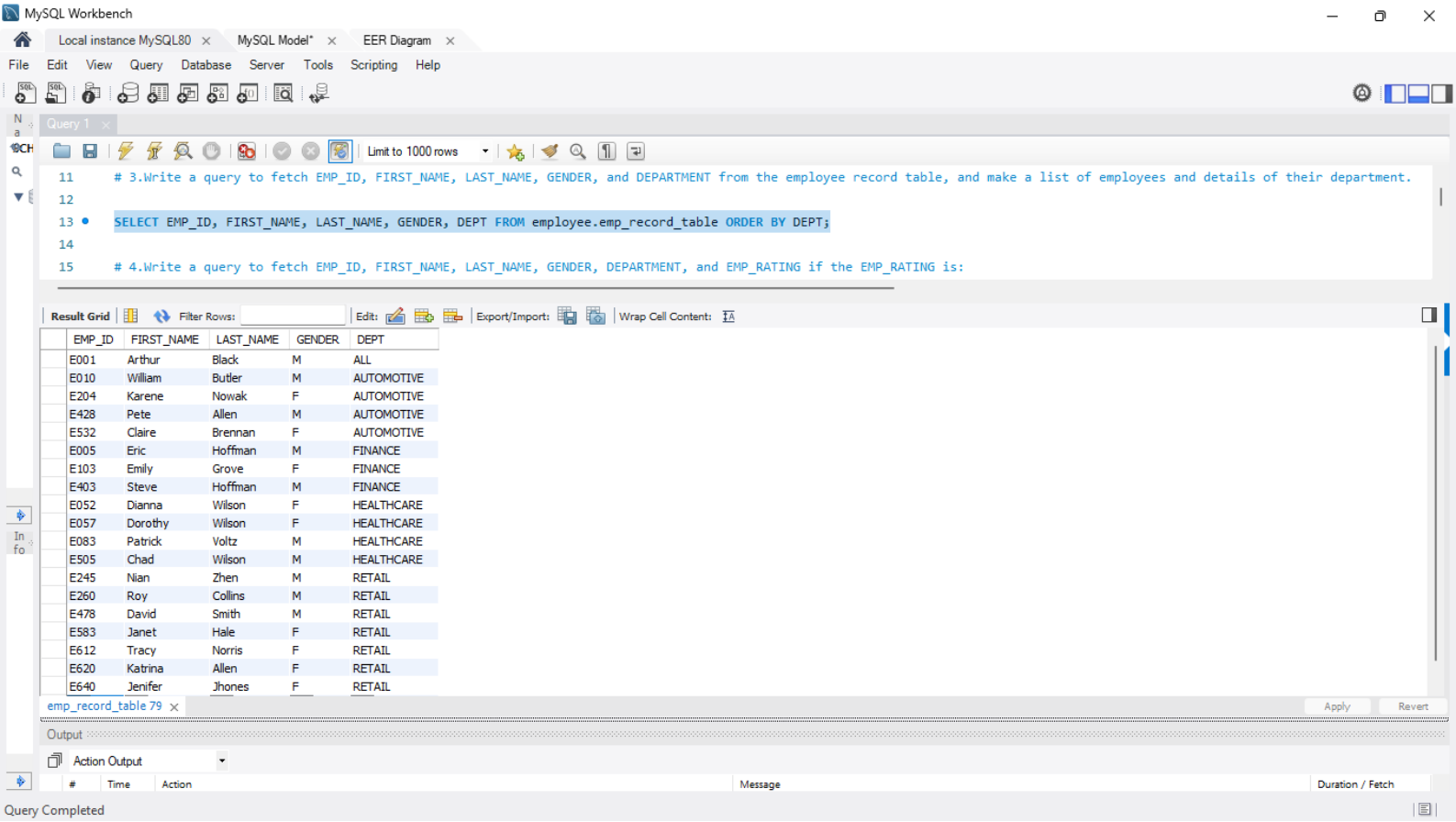
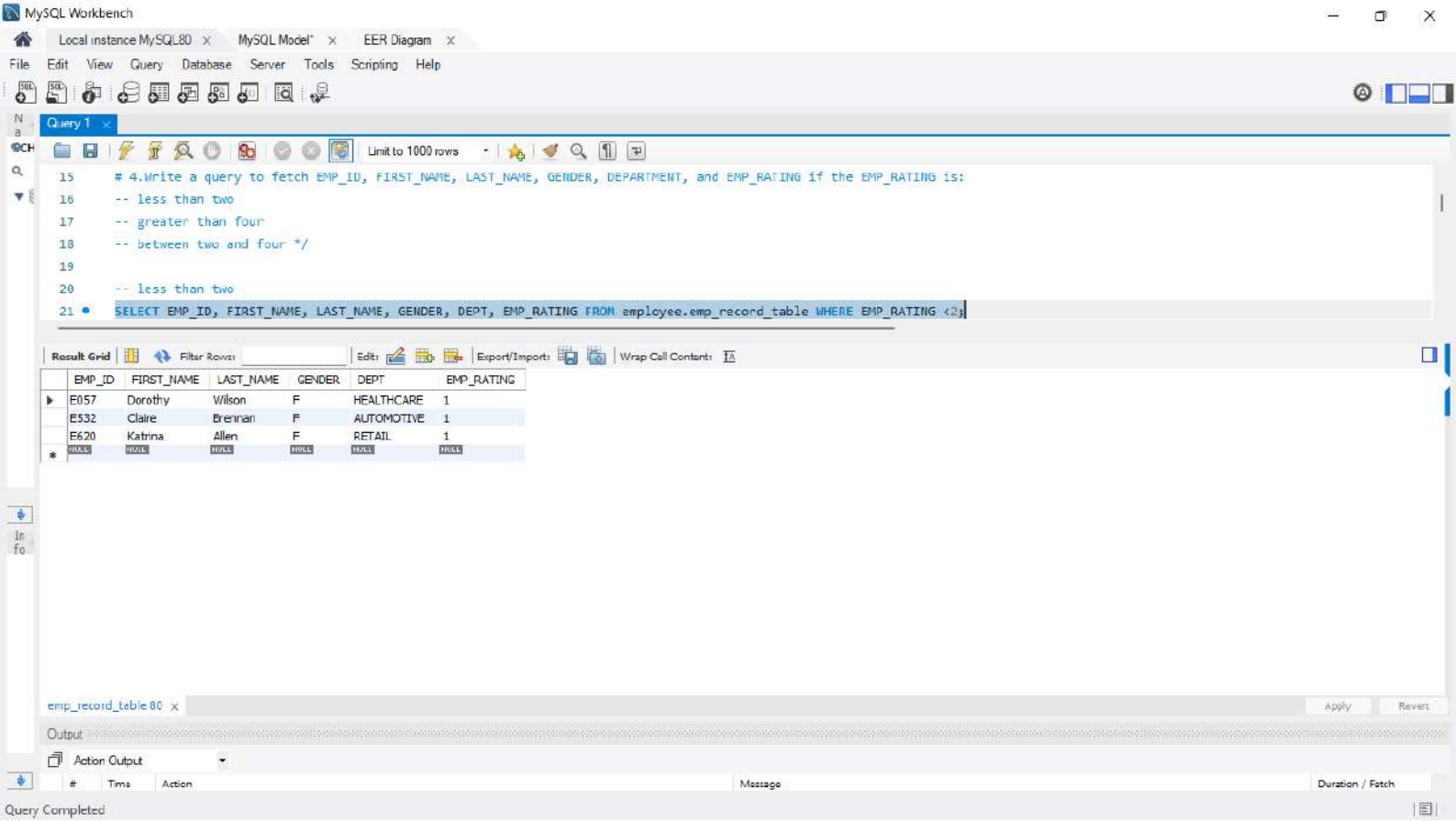
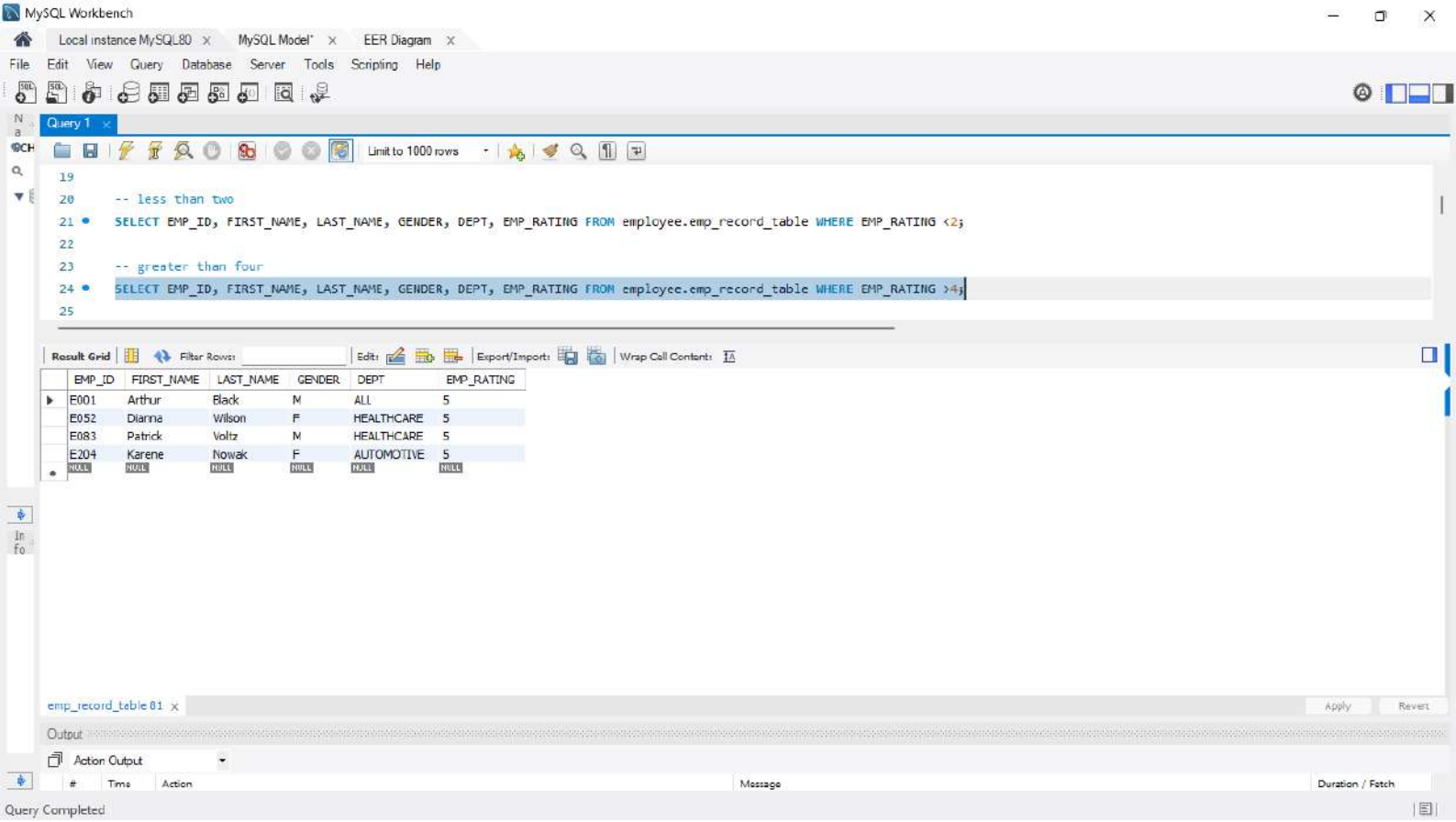
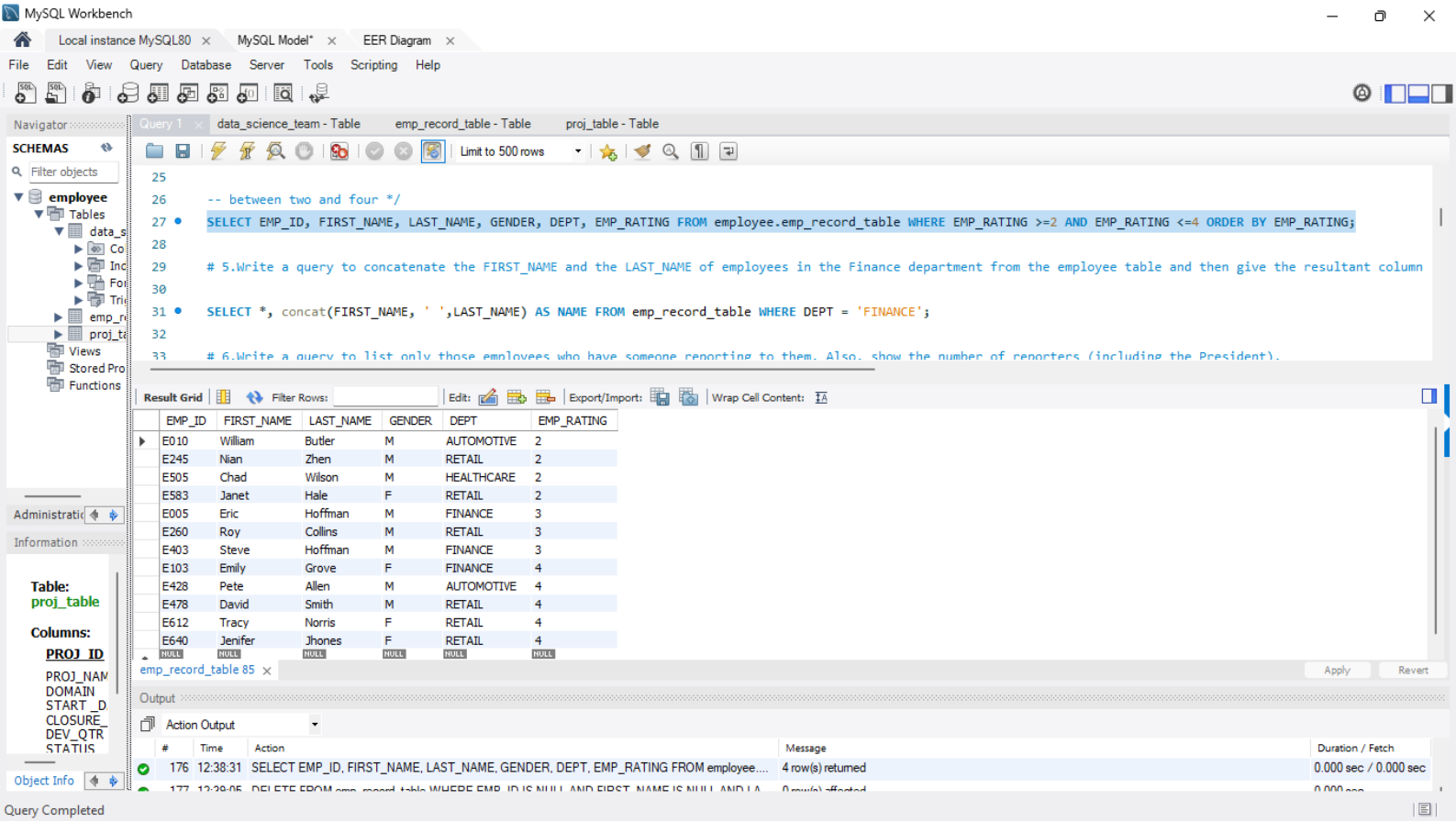

MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Query 1
Limit to 1000 rows
1.Create a database named employee, then import data_science_team.csv proj_table.csv and emp_record_table.csv into the employee database from the given resources.
create database employee;
use employee;
show tables;
show full tables where table_type = "BASE TABLE";
SELECT
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Tables_in_employee
Table_type
data_science_team
BASE TABLE
emp_record_table
BASE TABLE
proj_table
BASE TABLE
Result 77
Result 78
Read Only
Output
Action Output
Time Action Message Duration / Fetch
166 12:28:23 show tables 4 row(s) returned 0.000 sec / 0.000 sec
167 12:28:23 show full tables where table_type = "BASE TABLE" 3 row(s) returned 0.000 sec / 0.000 sec
Query Completed

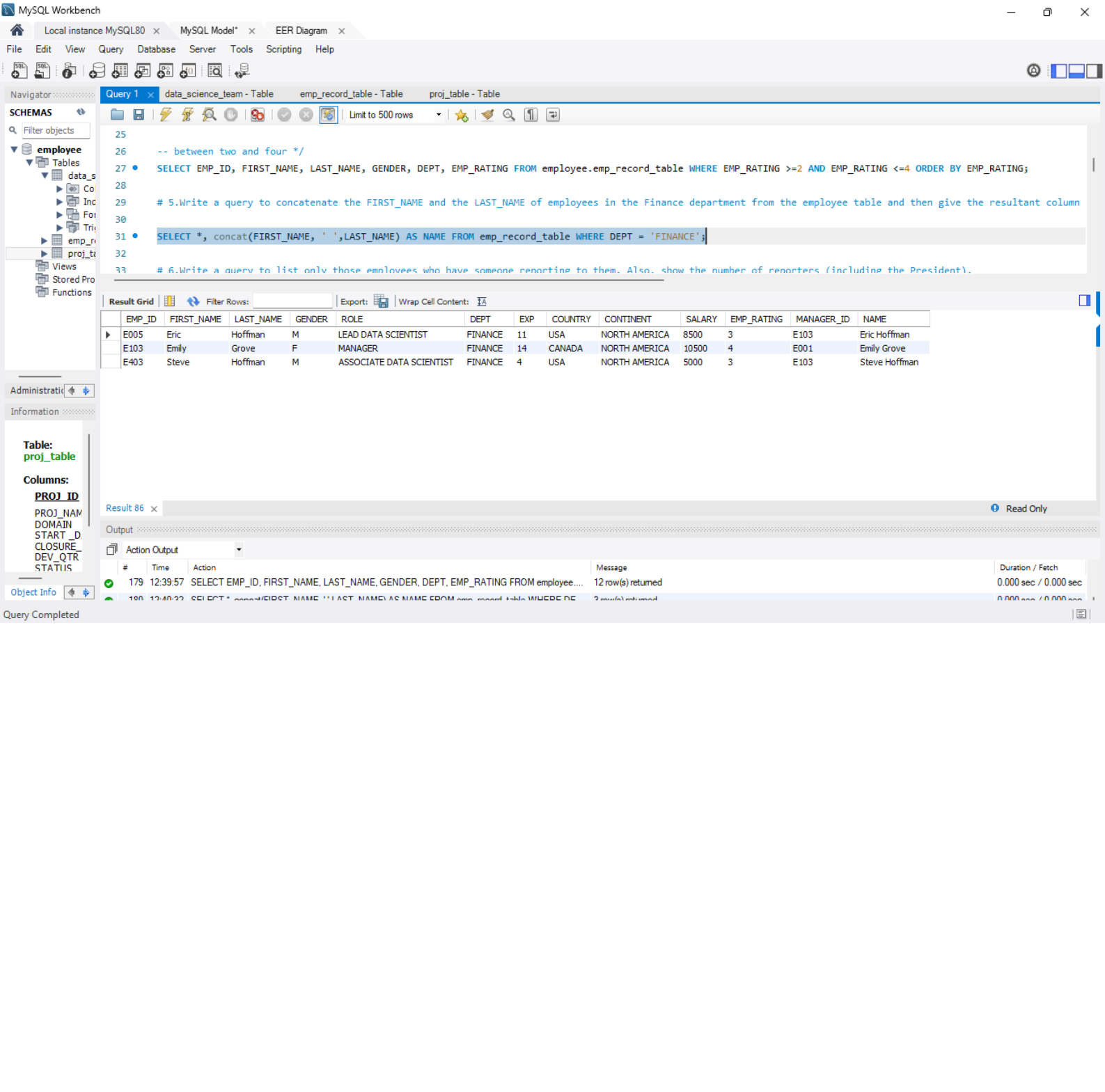

MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Arrange Model Database Tools Scripting Help
Bird's Eye
Zoom: 100%
Catalog Tree
Views
Routine Groups
employee
Tables
Views
Routine Groups
Catalog Layers User Types
Description Editor
No Selection
Description Properties
Diagram
proj_table
PROJ_ID VARCHAR(50)
PROJ_NAME TEXT
DOMAIN TEXT
START _DATE TEXT
CLOSURE_DATE TEXT
DEV_QTR TEXT
STATUS TEXT
emp_record_table_EMP_ID VARCHAR(50)
Indexes
emp_record_table
EMP_ID VARCHAR(50)
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 TEXT
data_science_team_EMP_ID VARCHAR(50)
Indexes
data_science_team
EMP_ID VARCHAR(50)
FIRST_NAME BIGINT
LAST_NAME TEXT
GENDER TEXT
ROLE JSON
DEPT TEXT
EXP INT
COUNTRY TEXT
CONTINENT TEXT
Indexes
Modeling Additions
timestamps
create_time, update_time
user
username, email, passwor...
category
category_id, name
Templates
Ready

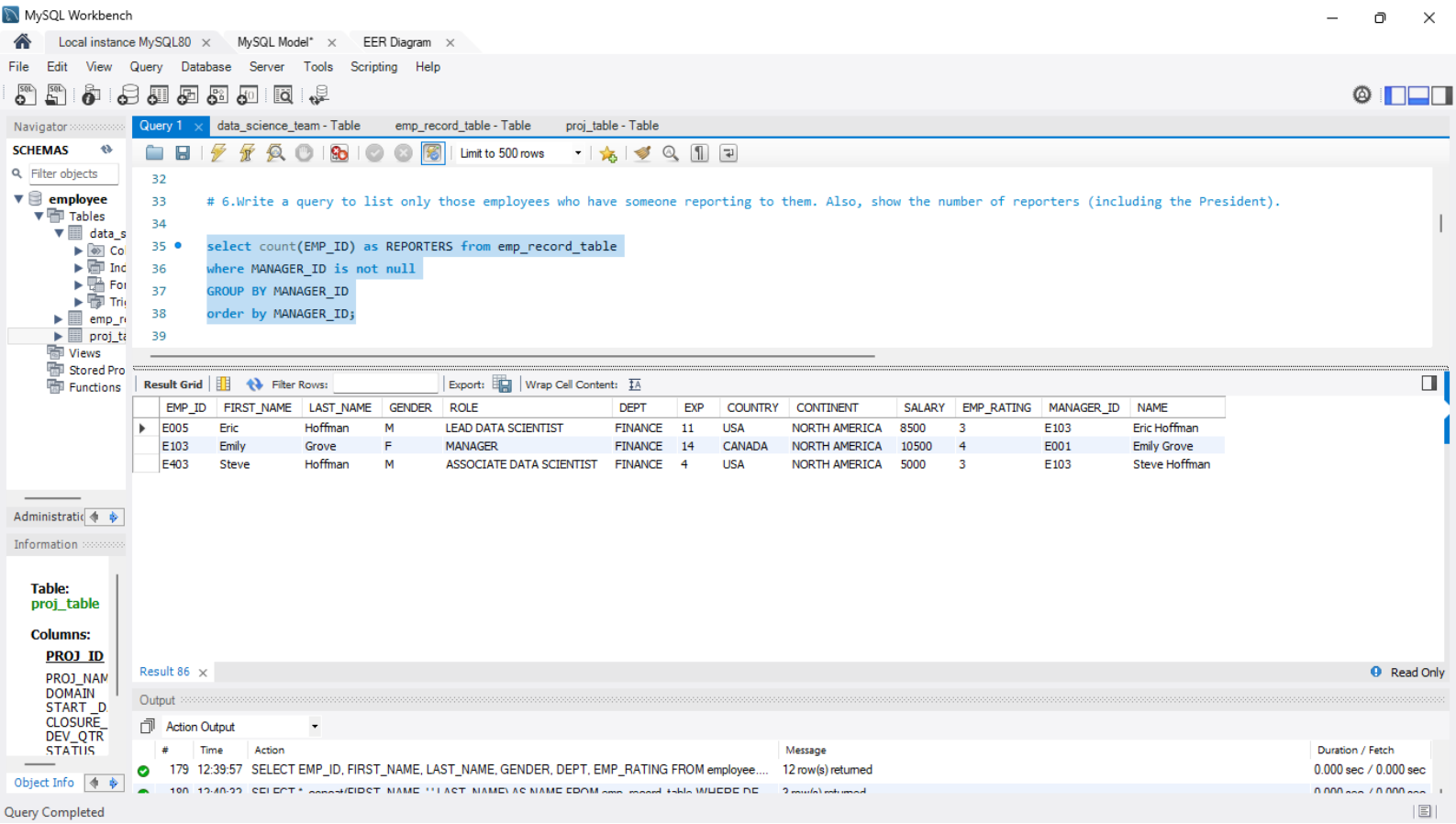

MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Query 1
Limit to 1000 rows
11 # 3.Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, and DEPARTMENT from the employee record table, and make a list of employees and details of their department.
12
13 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM employee.emp_record_table ORDER BY DEPT;
14
15 # 4.Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT, and EMP_RATING if the EMP_RATING is:
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
EMP_ID FIRST_NAME LAST_NAME GENDER DEPT
E001 Arthur Black M ALL
E010 William Butler M AUTOMOTIVE
E204 Karene Nowak F AUTOMOTIVE
E428 Pete Allen M AUTOMOTIVE
E532 Claire Brennan F AUTOMOTIVE
E005 Eric Hoffman M FINANCE
E103 Emily Grove F FINANCE
E403 Steve Hoffman M FINANCE
E052 Dianna Wilson F HEALTHCARE
E057 Dorothy Wilson F HEALTHCARE
E083 Patrick Voltz M HEALTHCARE
E505 Chad Wilson M HEALTHCARE
E245 Nian Zhen M RETAIL
E260 Roy Collins M RETAIL
E478 David Smith M RETAIL
E583 Janet Hale F RETAIL
E612 Tracy Norris F RETAIL
E620 Katrina Allen F RETAIL
E640 Jenifer Jhones F RETAIL
emp_record_table 79
Apply
Revert
Output
Action Output
Time Action Message Duration / Fetch
Query Completed

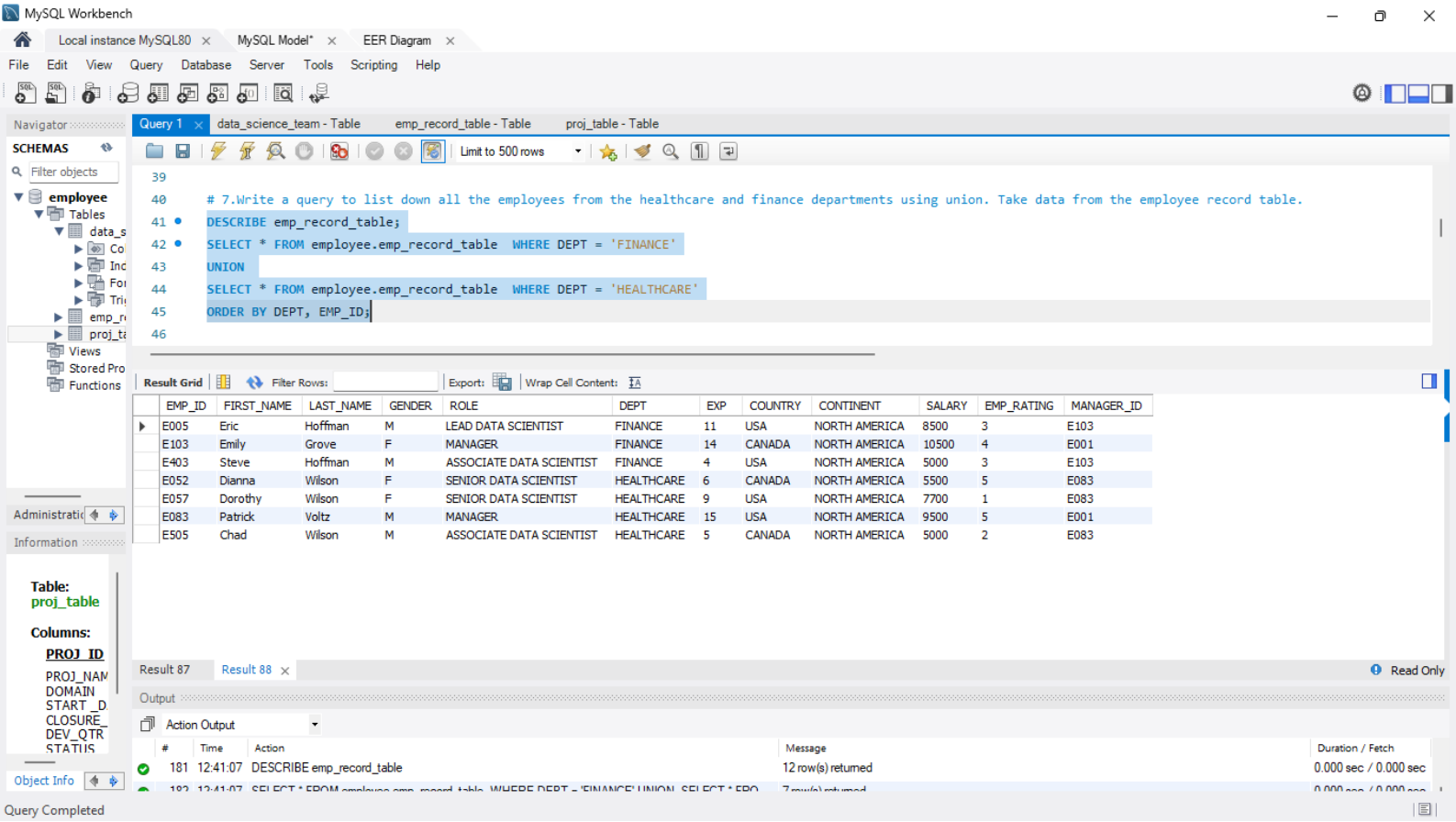

MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Query 1
Limit to 1000 rows
15 # 4.Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT, and EMP_RATING if the EMP_RATING is:
16 -- less than two
17 -- greater than four
18 -- between two and four */
19
20 -- less than two
21 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM employee.emp_record_table WHERE EMP_RATING <2;
Result Grid
Filter Rows:
Edit:
Export/Import:
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
emp_record_table 80
Apply
Revert
Output
Action Output
Time Action Message Duration / Fetch
Query Completed

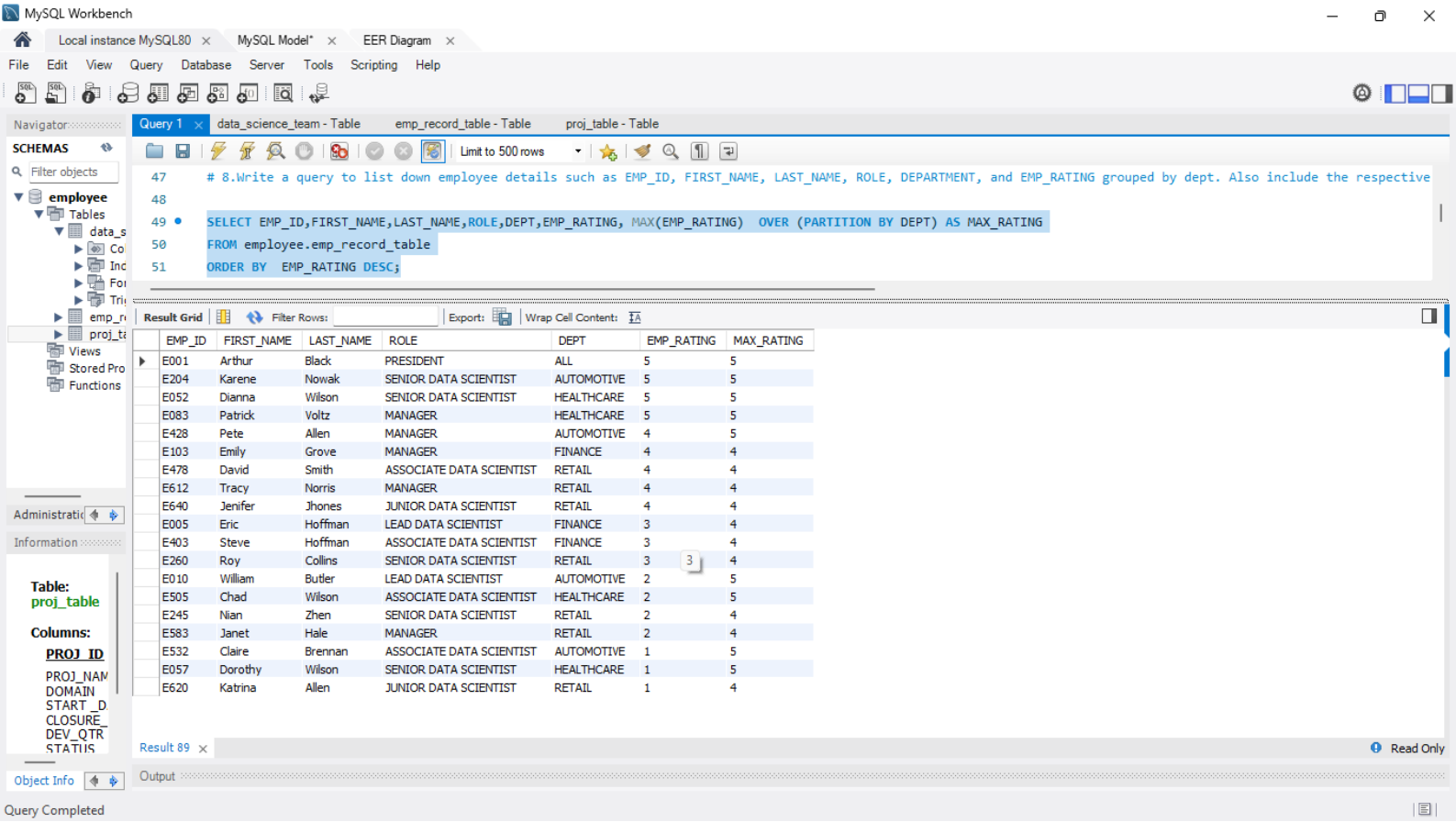

MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Query 1
Limit to 1000 rows
19
20 -- less than two
21 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM employee.emp_record_table WHERE EMP_RATING <2;
22
23 -- greater than four
24 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM employee.emp_record_table WHERE EMP_RATING >4;
25
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
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
NULL NULL NULL NULL NULL NULL
emp_record_table 81
Apply
Revert
Output
Action Output
Time Action Message Duration / Fetch
Query Completed

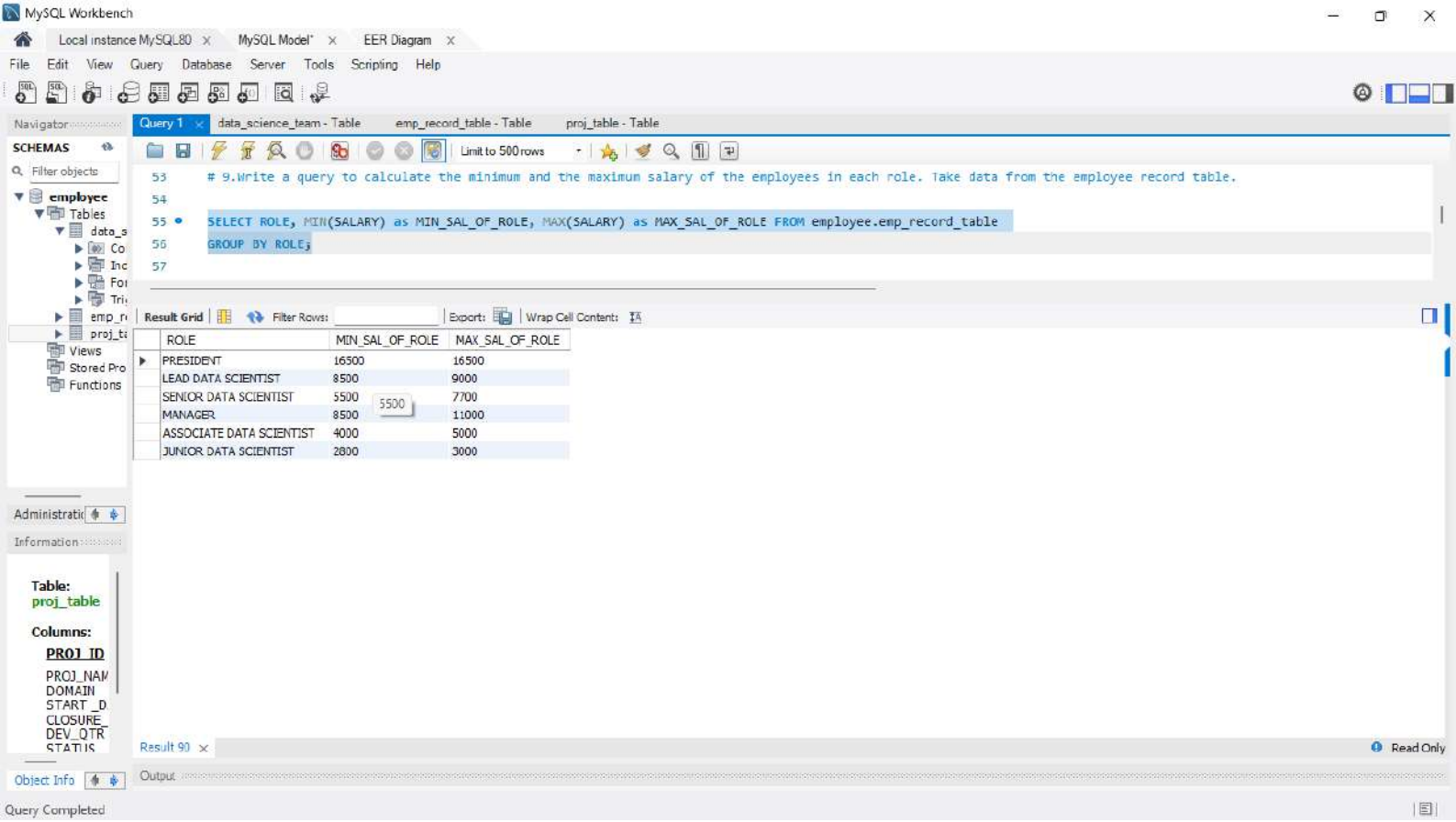

MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
employee
Tables
Views
Stored Pro
Functions
Administrati
Information
Table:
proj_table
Columns:
PROJ_ID
PROJ_NAM
DOMAIN
START _D
CLOSURE_
DEV_QTR
STATUS
Object Info
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
25
26 -- between two and four */
27 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM employee.emp_record_table WHERE EMP_RATING >=2 AND EMP_RATING <=4 ORDER BY EMP_RATING;
28
29 # 5.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
30
31 SELECT *, concat(FIRST_NAME, ' ',LAST_NAME) AS NAME FROM emp_record_table WHERE DEPT = 'FINANCE';
32
33 # 6.Write a query to list only those employees who have someone reporting to them. Also, show the number of reporters (including the President).
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
EMP_ID FIRST_NAME LAST_NAME GENDER DEPT EMP_RATING
E010 William Butler M AUTOMOTIVE 2
E245 Nian Zhen M RETAIL 2
E505 Chad Wilson M HEALTHCARE 2
E583 Janet Hale F RETAIL 2
E005 Eric Hoffman M FINANCE 3
E260 Roy Collins M RETAIL 3
E403 Steve Hoffman M FINANCE 3
E103 Emily Grove F FINANCE 4
E428 Pete Allen M AUTOMOTIVE 4
E478 David Smith M RETAIL 4
E612 Tracy Norris F RETAIL 4
E640 Jenifer Jhones F RETAIL 4
NULL NULL NULL NULL NULL NULL
emp_record_table 85
Apply
Revert
Output
Action Output
Time Action Message Duration / Fetch
176 12:38:31 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM employee.... 4 row(s) returned 0.000 sec / 0.000 sec
Query Completed

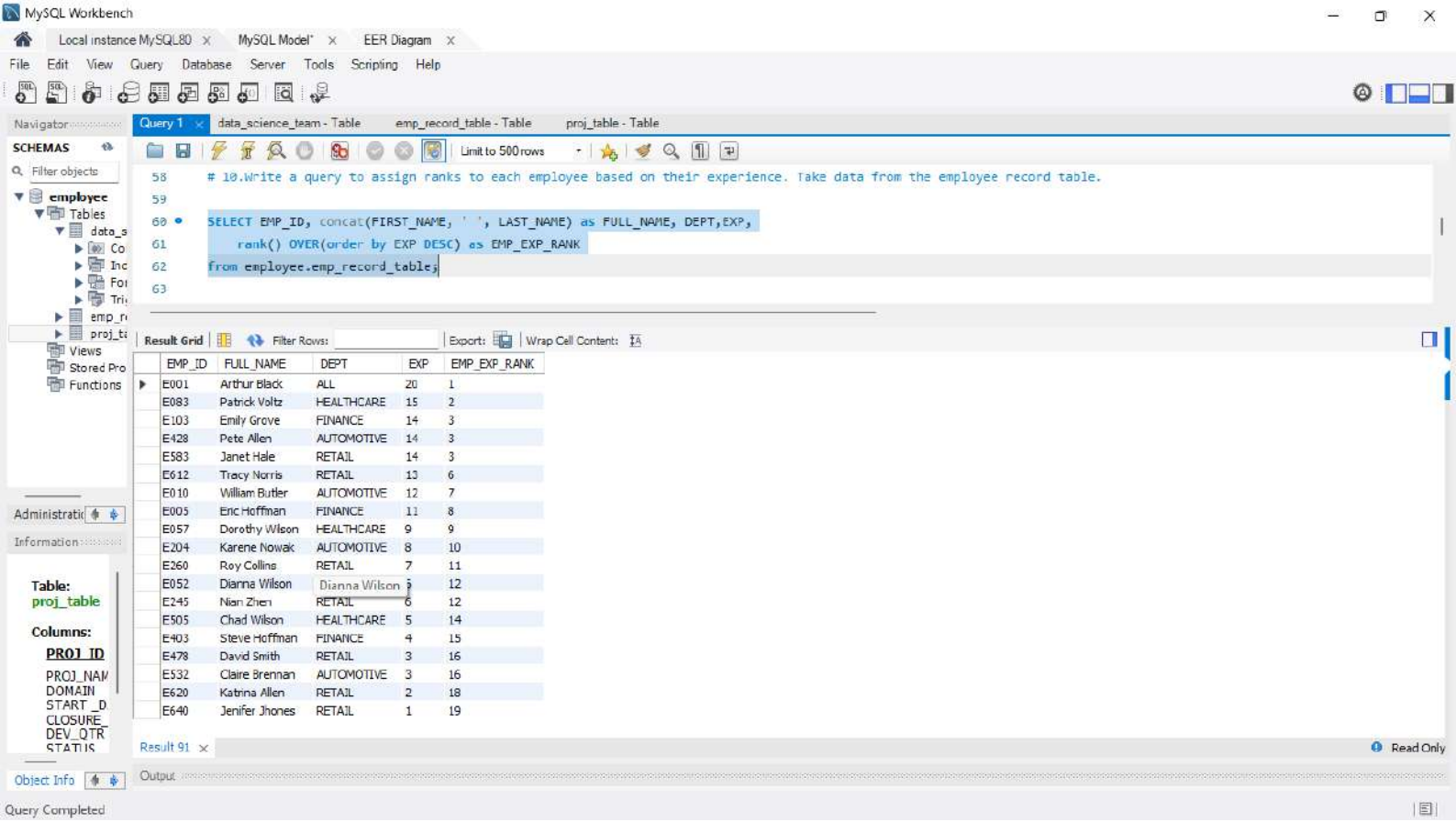

MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
employee
Tables
Views
Stored Pro
Functions
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
25
26 -- between two and four */
27 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM employee.emp_record_table WHERE EMP_RATING >=2 AND EMP_RATING <=4 ORDER BY EMP_RATING;
28
29 # 5.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
30
31 SELECT *, concat(FIRST_NAME, ' ',LAST_NAME) AS NAME FROM emp_record_table WHERE DEPT = 'FINANCE';
32
33 # 6.Write a query to list only those employees who have someone reporting to them. Also, show the number of reporters (including the President).
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
EMP_ID FIRST_NAME LAST_NAME GENDER ROLE DEPT EXP COUNTRY CONTINENT SALARY EMP_RATING MANAGER_ID NAME
E005 Eric Hoffman M LEAD DATA SCIENTIST FINANCE 11 USA NORTH AMERICA 8500 3 E103 Eric Hoffman
E103 Emily Grove F MANAGER FINANCE 14 CANADA NORTH AMERICA 10500 4 E001 Emily Grove
E403 Steve Hoffman M ASSOCIATE DATA SCIENTIST FINANCE 4 USA NORTH AMERICA 5000 3 E103 Steve Hoffman
Result 86
Read Only
Administrati
Information
Table:
proj_table
Columns:
PROJ_ID
PROJ_NAM
DOMAIN
START _D
CLOSURE_
DEV_QTR
STATUS
Object Info
Output
Action Output
Time Action Message Duration / Fetch
179 12:39:57 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM employee.... 12 row(s) returned 0.000 sec / 0.000 sec
Query Completed

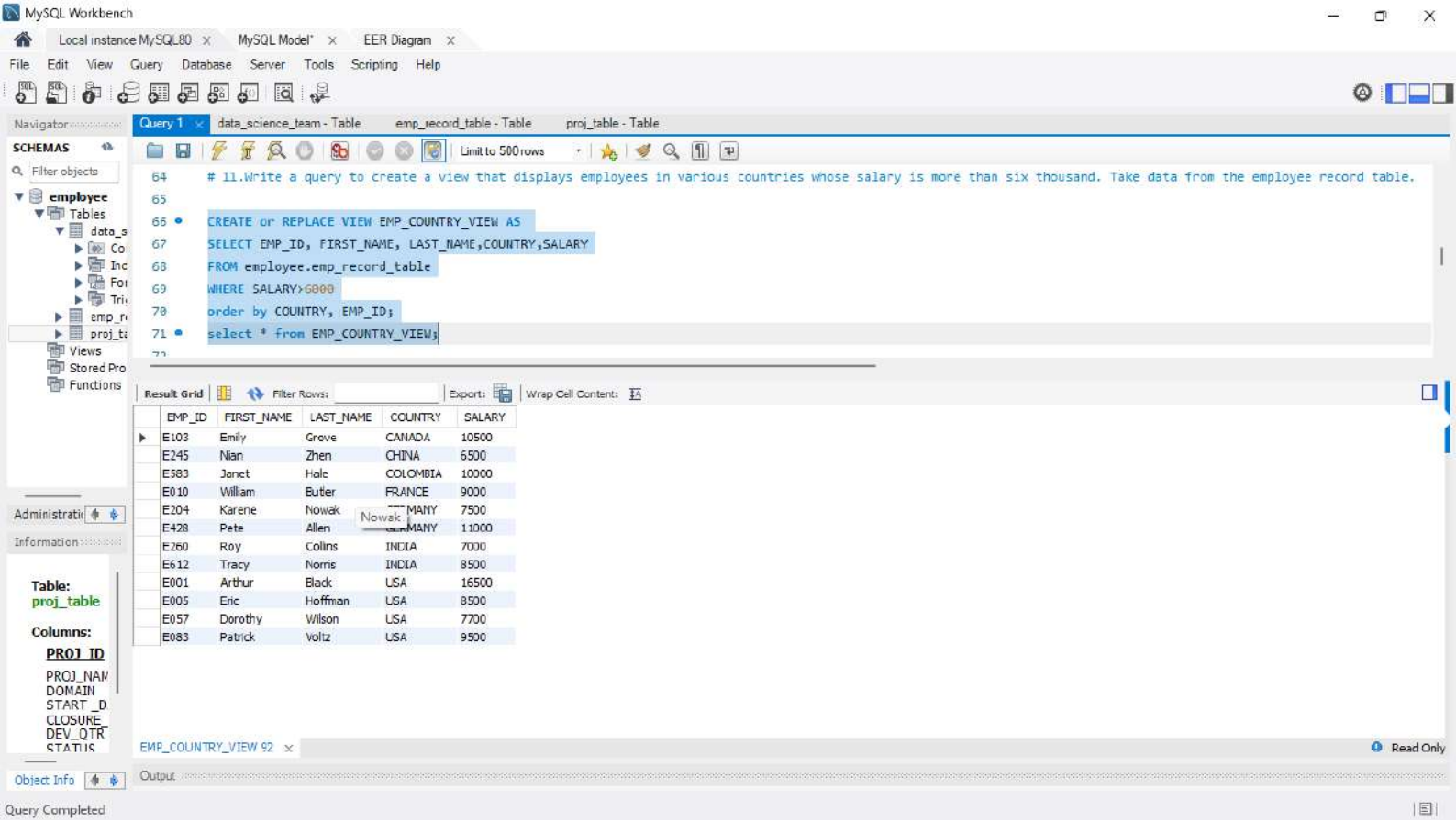

MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
employee
Tables
Views
Stored Pro
Functions
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
32
33 # 6.Write a query to list only those employees who have someone reporting to them. Also, show the number of reporters (including the President).
34
35 select count(EMP_ID) as REPORTERS from emp_record_table
36 where MANAGER_ID is not null
37 GROUP BY MANAGER_ID
38 order by MANAGER_ID;
39
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
EMP_ID FIRST_NAME LAST_NAME GENDER ROLE DEPT EXP COUNTRY CONTINENT SALARY EMP_RATING MANAGER_ID NAME
E005 Eric Hoffman M LEAD DATA SCIENTIST FINANCE 11 USA NORTH AMERICA 8500 3 E103 Eric Hoffman
E103 Emily Grove F MANAGER FINANCE 14 CANADA NORTH AMERICA 10500 4 E001 Emily Grove
E403 Steve Hoffman M ASSOCIATE DATA SCIENTIST FINANCE 4 USA NORTH AMERICA 5000 3 E103 Steve Hoffman
Result 86
Read Only
Information
Table:
proj_table
Columns:
PROJ_ID
Output
Action Output
Time Action Message Duration / Fetch
179 12:39:57 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM employee.... 12 row(s) returned 0.000 sec / 0.000 sec
Query Completed

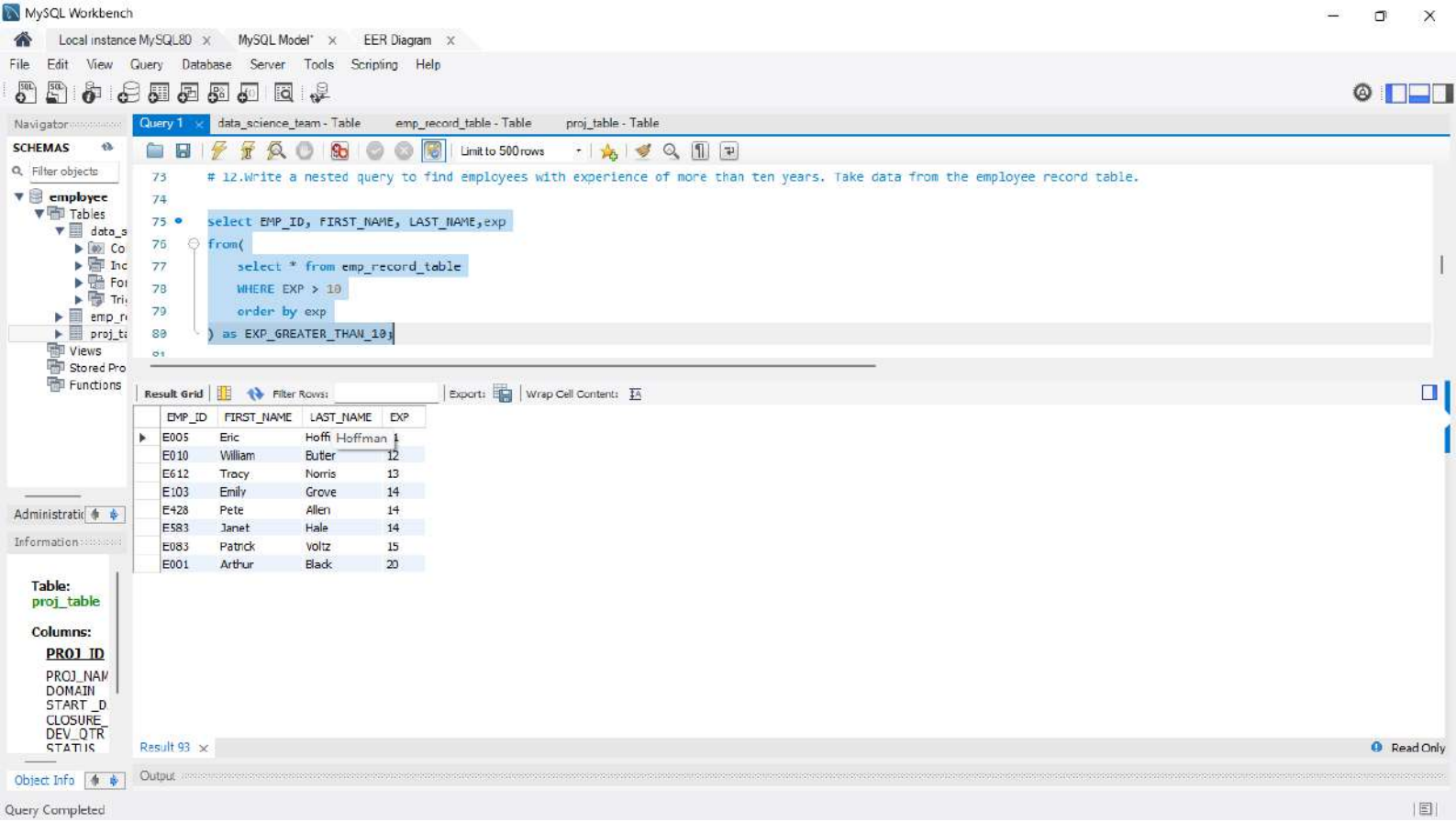

MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
employee
Tables
Views
Stored Pro
Functions
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
39
40 # 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.
41 DESCRIBE emp_record_table;
42 SELECT * FROM employee.emp_record_table WHERE DEPT = 'FINANCE'
43 UNION
44 SELECT * FROM employee.emp_record_table WHERE DEPT = 'HEALTHCARE'
45 ORDER BY DEPT, EMP_ID;
46
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
EMP_ID FIRST_NAME LAST_NAME GENDER ROLE DEPT EXP COUNTRY CONTINENT SALARY EMP_RATING MANAGER_ID
E005 Eric Hoffman M LEAD DATA SCIENTIST FINANCE 11 USA NORTH AMERICA 8500 3 E103
E103 Emily Grove F MANAGER FINANCE 14 CANADA NORTH AMERICA 10500 4 E001
E403 Steve Hoffman M ASSOCIATE DATA SCIENTIST FINANCE 4 USA NORTH AMERICA 5000 3 E103
E052 Dianna Wilson F SENIOR DATA SCIENTIST HEALTHCARE 6 CANADA NORTH AMERICA 5500 5 E083
E057 Dorothy Wilson F SENIOR DATA SCIENTIST HEALTHCARE 9 USA NORTH AMERICA 7700 1 E083
E083 Patrick Voltz M MANAGER HEALTHCARE 15 USA NORTH AMERICA 9500 5 E001
E505 Chad Wilson M ASSOCIATE DATA SCIENTIST HEALTHCARE 5 CANADA NORTH AMERICA 5000 2 E083
Result 87
Result 88
Read Only
Information
Table:
proj_table
Columns:
PROJ_ID
PROJ_NAM
DOMAIN
START _D
CLOSURE_
DEV_QTR
STATUS
Output
Action Output
Time Action Message Duration / Fetch
181 12:41:07 DESCRIBE emp_record_table 12 row(s) returned 0.000 sec / 0.000 sec
Object Info
Query Completed

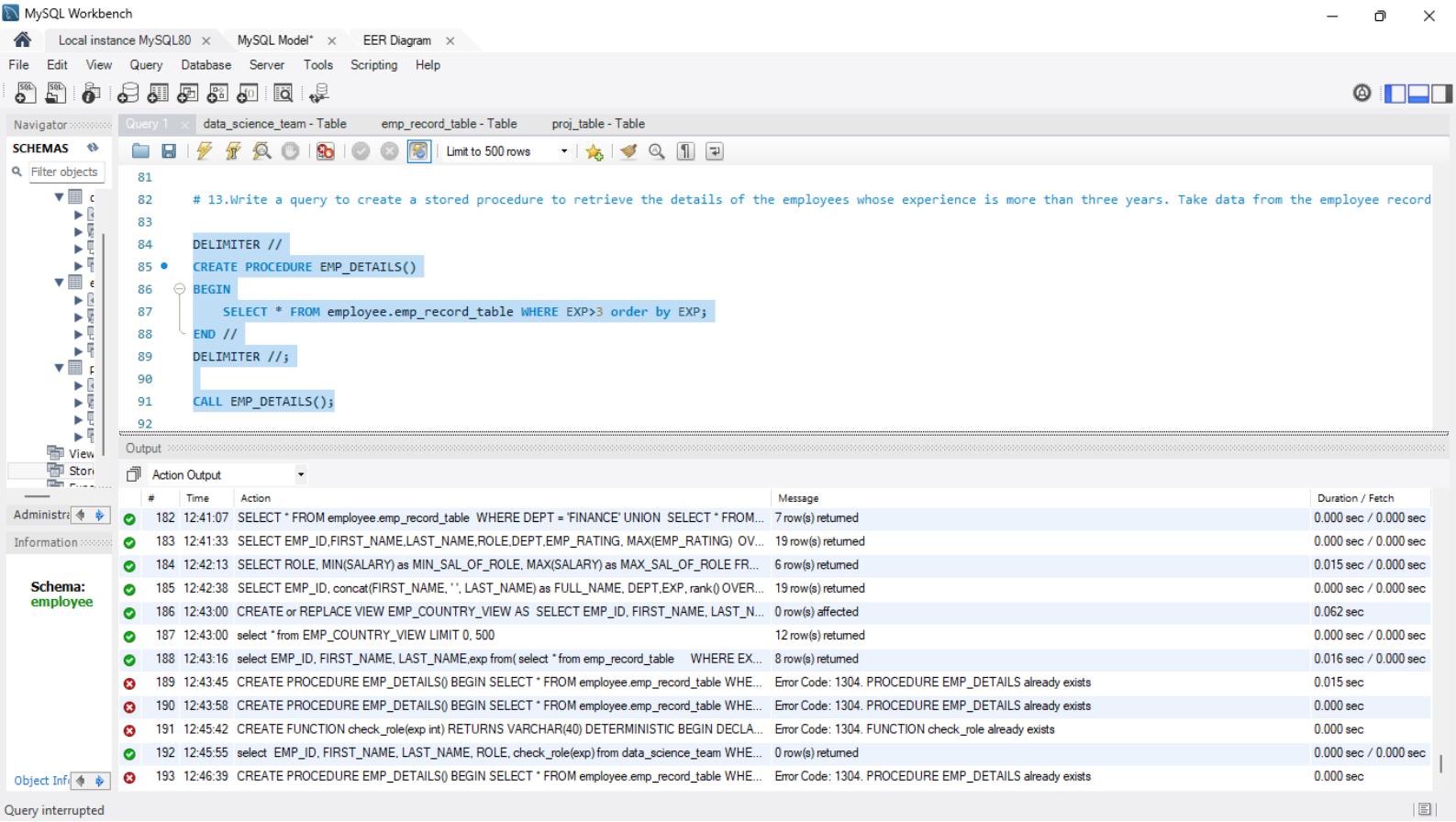

MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
employee
Tables
Views
Stored Pro
Functions
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
47 # 8.Write 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
48
49 SELECT EMP_ID,FIRST_NAME,LAST_NAME,ROLE,DEPT,EMP_RATING, MAX(EMP_RATING) OVER (PARTITION BY DEPT) AS MAX_RATING
50 FROM employee.emp_record_table
51 ORDER BY EMP_RATING DESC;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
EMP_ID FIRST_NAME LAST_NAME ROLE DEPT EMP_RATING MAX_RATING
E001 Arthur Black PRESIDENT ALL 5 5
E204 Karene Nowak SENIOR DATA SCIENTIST AUTOMOTIVE 5 5
E052 Dianna Wilson SENIOR DATA SCIENTIST HEALTHCARE 5 5
E083 Patrick Voltz MANAGER HEALTHCARE 5 5
E428 Pete Allen MANAGER AUTOMOTIVE 4 5
E103 Emily Grove MANAGER FINANCE 4 4
E478 David Smith ASSOCIATE DATA SCIENTIST RETAIL 4 4
E612 Tracy Norris MANAGER RETAIL 4 4
E640 Jenifer Jhones JUNIOR DATA SCIENTIST RETAIL 4 4
E005 Eric Hoffman LEAD DATA SCIENTIST FINANCE 3 4
E403 Steve Hoffman ASSOCIATE DATA SCIENTIST FINANCE 3 4
E260 Roy Collins SENIOR DATA SCIENTIST RETAIL 3 4
E010 William Butler LEAD DATA SCIENTIST AUTOMOTIVE 2 5
E505 Chad Wilson ASSOCIATE DATA SCIENTIST HEALTHCARE 2 5
E245 Nian Zhen SENIOR DATA SCIENTIST RETAIL 2 4
E583 Janet Hale MANAGER RETAIL 2 4
E532 Claire Brennan ASSOCIATE DATA SCIENTIST AUTOMOTIVE 1 5
E057 Dorothy Wilson SENIOR DATA SCIENTIST HEALTHCARE 1 5
E620 Katrina Allen JUNIOR DATA SCIENTIST RETAIL 1 4
Result 89
Read Only
Output
Information
Table:
proj_table
Columns:
PROJ_ID
Object Info
Query Completed


MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
employee
Tables
Views
Stored Pro
Functions
Administrati
Information
Table:
proj_table
Columns:
PROJ_ID
PROJ_NAM
DOMAIN
START_D
CLOSURE_
DEV_QTR
STATUS
Object Info
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
53 # 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.
54
55 SELECT ROLE, MIN(SALARY) as MIN_SAL_OF_ROLE, MAX(SALARY) as MAX_SAL_OF_ROLE FROM employee.emp_record_table
56 GROUP BY ROLE;
57
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
ROLE MIN_SAL_OF_ROLE MAX_SAL_OF_ROLE
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
5500
Result 90
Read Only
Output
Query Completed


MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
employee
Tables
Views
Stored Pro
Functions
Administrati
Information
Table:
proj_table
Columns:
PROJ_ID
PROJ_NAM
DOMAIN
START_D
CLOSURE_
DEV_QTR
STATUS
Object Info
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
58 # 10.Write a query to assign ranks to each employee based on their experience. Take data from the employee record table.
59
60 SELECT EMP_ID, concat(FIRST_NAME, ' ', LAST_NAME) as FULL_NAME, DEPT,EXP,
61 rank() OVER(order by EXP DESC) as EMP_EXP_RANK
62 from employee.emp_record_table;
63
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
EMP_ID FULL_NAME DEPT EXP EMP_EXP_RANK
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
E010 William Butler AUTOMOTIVE 12 7
E005 Eric Hoffman FINANCE 11 8
E057 Dorothy Wilson HEALTHCARE 9 9
E204 Karene Nowak AUTOMOTIVE 8 10
E260 Roy Collins RETAIL 7 11
E052 Dianna Wilson 6 12
E245 Nian Zhen RETAIL 6 12
E505 Chad Wilson HEALTHCARE 5 14
E403 Steve Hoffman FINANCE 4 15
E478 David Smith RETAIL 3 16
E532 Claire Brennan AUTOMOTIVE 3 16
E620 Katrina Allen RETAIL 2 18
E640 Jenifer Jhones RETAIL 1 19
Result 91
Read Only
Output
Query Completed


MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
employee
Tables
Views
Stored Pro
Functions
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
64 # 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.
65
66 CREATE or REPLACE VIEW EMP_COUNTRY_VIEW AS
67 SELECT EMP_ID, FIRST_NAME, LAST_NAME,COUNTRY,SALARY
68 FROM employee.emp_record_table
69 WHERE SALARY>6000
70 order by COUNTRY, EMP_ID;
71 select * from EMP_COUNTRY_VIEW;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
EMP_ID FIRST_NAME LAST_NAME COUNTRY SALARY
E103 Emily Grove CANADA 10500
E245 Nian Zhen CHINA 6500
E583 Janet Hale COLOMBIA 10000
E010 William Butler FRANCE 9000
E204 Karene Nowak
E428 Pete Allen
E260 Roy Collins INDIA 7000
E612 Tracy Norris INDIA 8500
E001 Arthur Black USA 16500
E005 Eric Hoffman USA 8500
E057 Dorothy Wilson USA 7700
E083 Patrick Voltz USA 9500
Nowak
EMP_COUNTRY_VIEW 92
Read Only
Output
Table:
proj_table
Columns:
PROJ_ID
PROJ_NAM
DOMAIN
START_D
CLOSURE_
DEV_QTR
STATUS
Object Info
Query Completed


MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
employee
Tables
Views
Stored Pro
Functions
Administrati
Information
Table:
proj_table
Columns:
PROJ_ID
PROJ_NAM
DOMAIN
START_D
CLOSURE_
DEV_QTR
STATUS
Object Info
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
73 # 12.Write a nested query to find employees with experience of more than ten years. Take data from the employee record table.
74
75 select EMP_ID, FIRST_NAME, LAST_NAME,exp
76 from(
77 select * from emp_record_table
78 WHERE EXP > 10
79 order by exp
80) as EXP_GREATER_THAN_10;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
EMP_ID FIRST_NAME LAST_NAME EXP
E005 Eric Hoffman 1
E010 William Butler 12
E612 Tracy Norris 13
E103 Emily Grove 14
E428 Pete Allen 14
E583 Janet Hale 14
E083 Patrick Voltz 15
E001 Arthur Black 20
Result 93
Read Only
Output
Query Completed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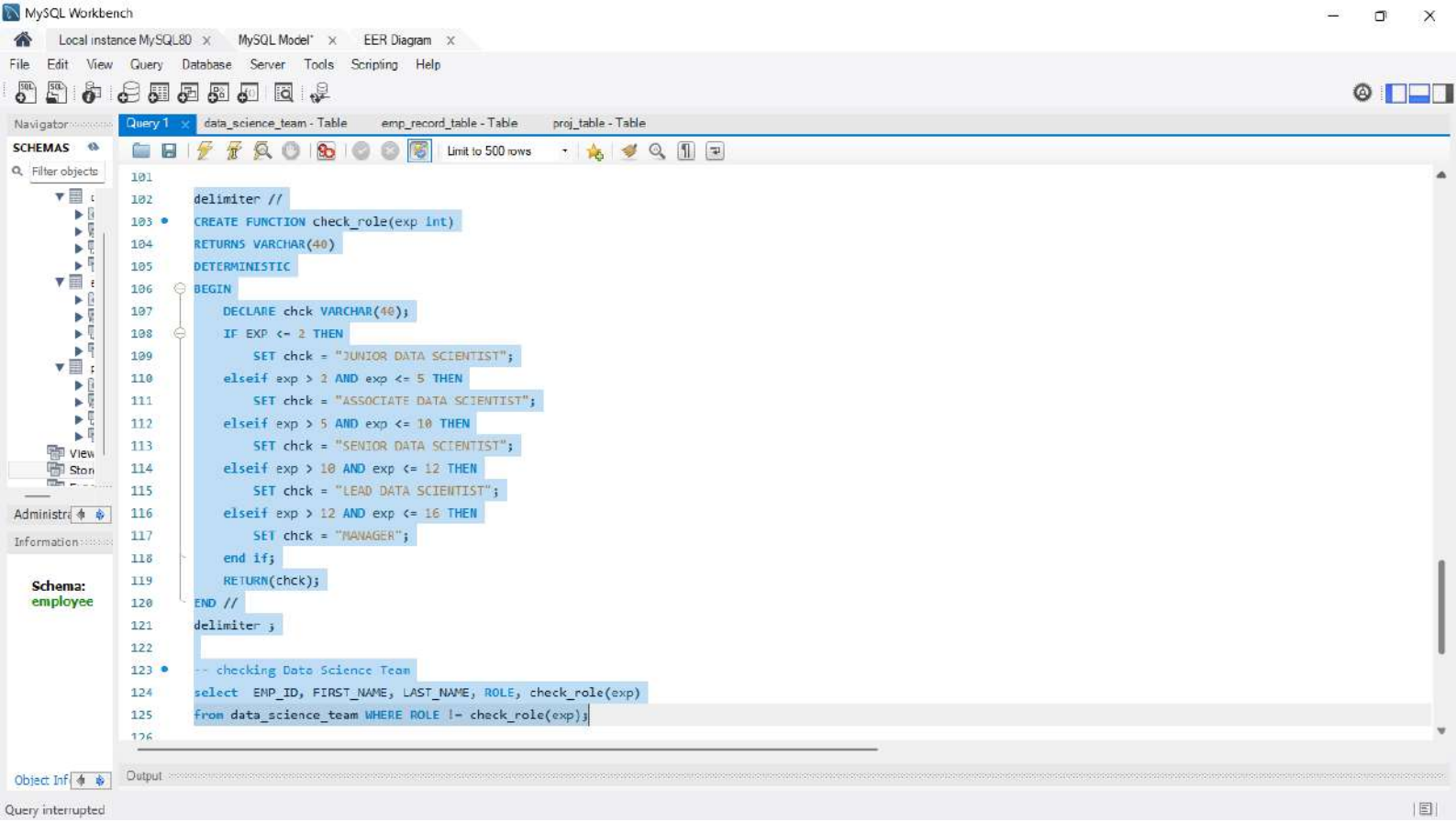
Filter objects
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
81
82 # 13.Write a query to create a stored procedure to retrieve the details of the employees whose experience is more than three years. Take data from the employee record
83
84 DELIMITER //
85 CREATE PROCEDURE EMP_DETAILS()
86 BEGIN
87 SELECT * FROM employee.emp_record_table WHERE EXP>3 order by EXP;
88 END //
89 DELIMITER //;
90
91 CALL EMP_DETAILS();
92
Output
Action Output
Time Action Message Duration / Fetch
182 12:41:07 SELECT * FROM employee.emp_record_table WHERE DEPT = 'FINANCE' UNION SELECT * FROM... 7 row(s) returned 0.000 sec / 0.000 sec
183 12:41:33 SELECT EMP_ID,FIRST_NAME,LAST_NAME,ROLE,DEPT,EMP_RATING, MAX(EMP_RATING) OV... 19 row(s) returned 0.000 sec / 0.000 sec
184 12:42:13 SELECT ROLE, MIN(SALARY) as MIN_SAL_OF_ROLE, MAX(SALARY) as MAX_SAL_OF_ROLE FR... 6 row(s) returned 0.015 sec / 0.000 sec
185 12:42:38 SELECT EMP_ID, concat(FIRST_NAME, ' ', LAST_NAME) as FULL_NAME, DEPT,EXP, rank() OVER... 19 row(s) returned 0.000 sec / 0.000 sec
186 12:43:00 CREATE or REPLACE VIEW EMP_COUNTRY_VIEW AS SELECT EMP_ID, FIRST_NAME, LAST_N... 0 row(s) affected 0.062 sec
187 12:43:00 select * from EMP_COUNTRY_VIEW LIMIT 0, 500 12 row(s) returned 0.000 sec / 0.000 sec
188 12:43:16 select EMP_ID, FIRST_NAME, LAST_NAME,exp from(select * from emp_record_table WHERE EX... 8 row(s) returned 0.016 sec / 0.000 sec
189 12:43:45 CREATE PROCEDURE EMP_DETAILS() BEGIN SELECT * FROM employee.emp_record_table WHE... Error Code: 1304. PROCEDURE EMP_DETAILS already exists 0.015 sec
190 12:43:58 CREATE PROCEDURE EMP_DETAILS() BEGIN SELECT * FROM employee.emp_record_table WHE... Error Code: 1304. PROCEDURE EMP_DETAILS already exists 0.000 sec
191 12:45:42 CREATE FUNCTION check_role(exp int) RETURNS VARCHAR(40) DETERMINISTIC BEGIN DECLA... Error Code: 1304. FUNCTION check_role already exists 0.000 sec
192 12:45:55 select EMP_ID, FIRST_NAME, LAST_NAME, ROLE, check_role(exp) from data_science_team WHE... 0 row(s) returned 0.000 sec / 0.000 sec
193 12:46:39 CREATE PROCEDURE EMP_DETAILS() BEGIN SELECT * FROM employee.emp_record_table WHE... Error Code: 1304. PROCEDURE EMP_DETAILS already exists 0.000 sec
Administra
Information
Schema:
employee
Object Inf
Query interrupted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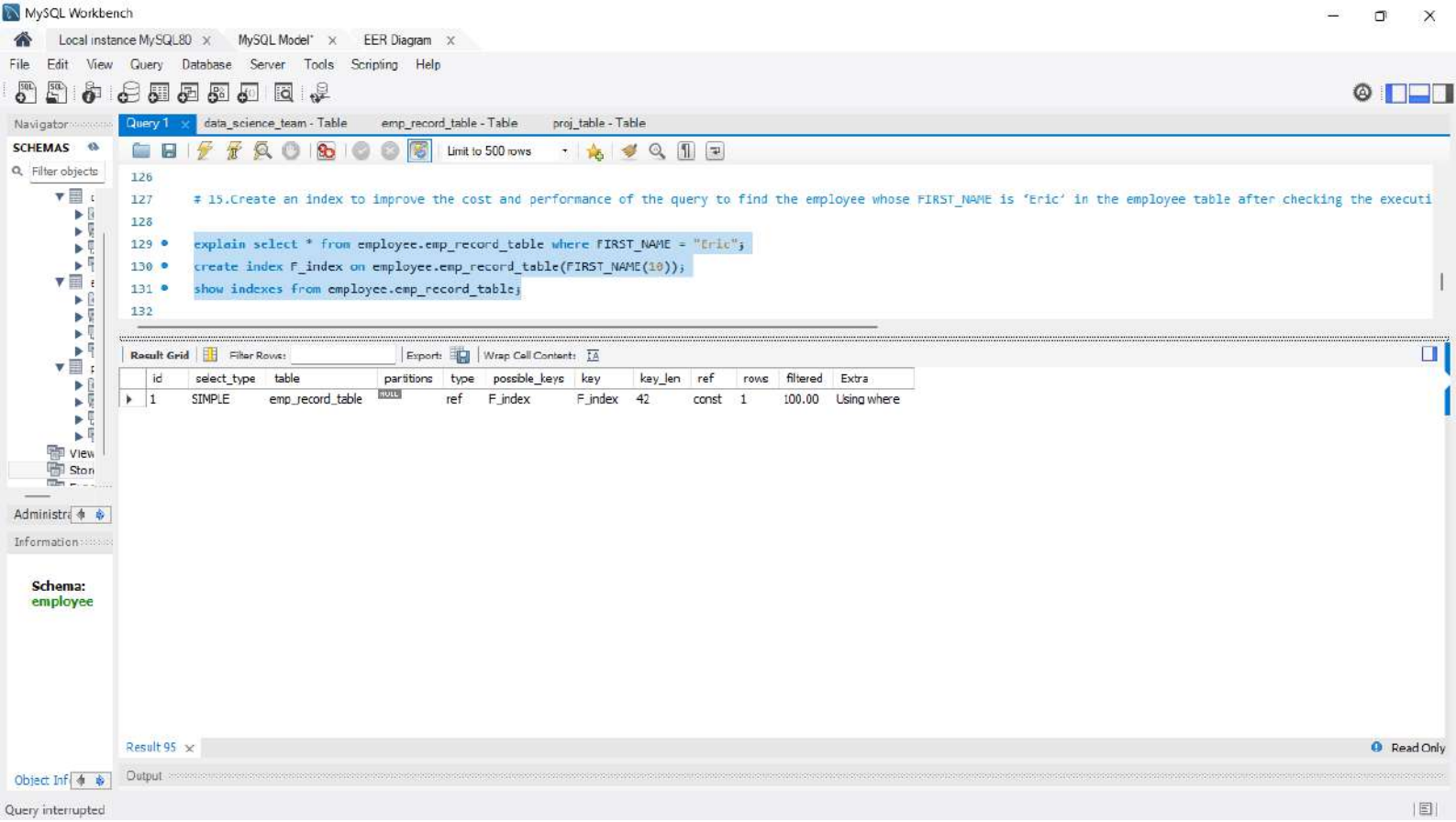
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
delimiter //
CREATE FUNCTION check_role(exp int)
RETURNS VARCHAR(40)
DETERMINISTIC
BEGIN
DECLARE chck VARCHAR(40);
IF EXP <= 2 THEN
SET chck = "JUNIOR DATA SCIENTIST";
elseif exp > 2 AND exp <= 5 THEN
SET chck = "ASSOCIATE DATA SCIENTIST";
elseif exp > 5 AND exp <= 10 THEN
SET chck = "SENIOR DATA SCIENTIST";
elseif exp > 10 AND exp <= 12 THEN
SET chck = "LEAD DATA SCIENTIST";
elseif exp > 12 AND exp <= 16 THEN
SET chck = "MANAGER";
end if;
RETURN(chck);
END //
delimiter ;
-- checking Data Science Team
select EMP_ID, FIRST_NAME, LAST_NAME, ROLE, check_role(exp)
from data_science_team WHERE ROLE != check_role(exp);
Information
Schema:
employee
Output
Query interrupted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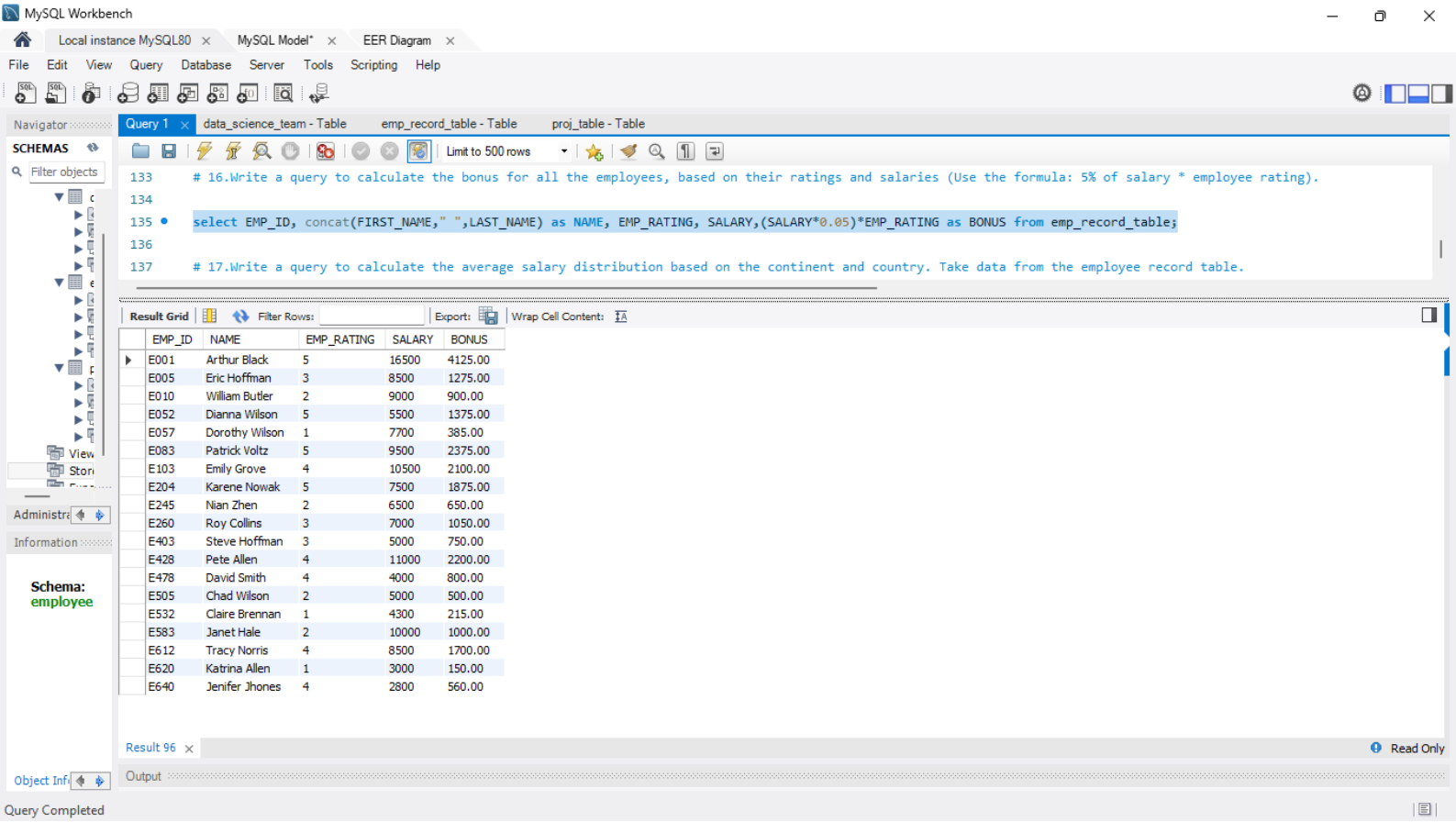
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
126
127 # 15.Create an index to improve the cost and performance of the query to find the employee whose FIRST_NAME is 'Eric' in the employee table after checking the executi
128
129 explain select * from employee.emp_record_table where FIRST_NAME = "Eric";
130 create index F_index on employee.emp_record_table(FIRST_NAME(10));
131 show indexes from employee.emp_record_table;
132
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 F_index F_index 42 const 1 100.00 Using where
Administra
Information
Schema:
employee
Result 95
Read Only
Object Inf
Output
Query interrupted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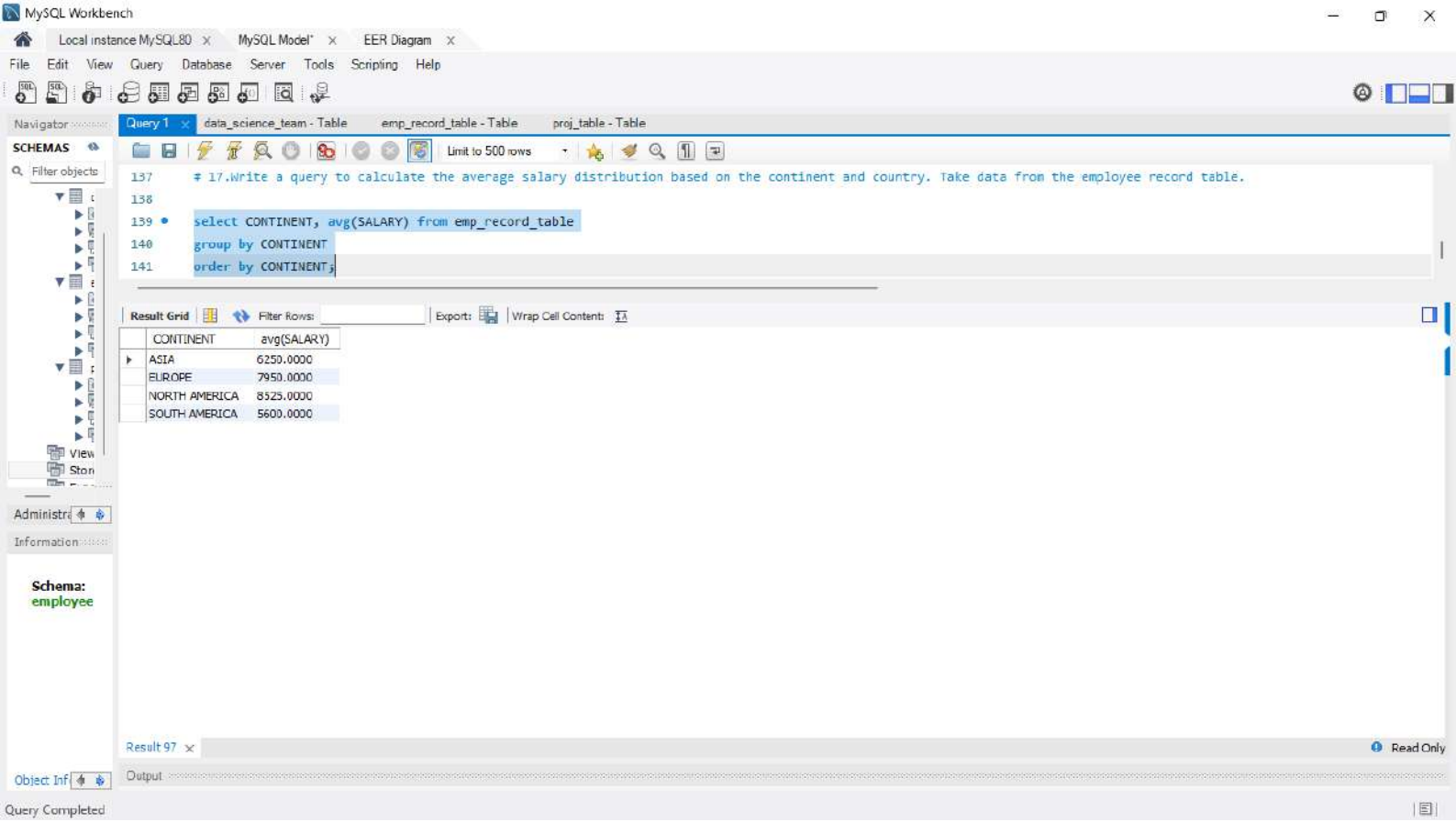
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
133 # 16.Write a query to calculate the bonus for all the employees, based on their ratings and salaries (Use the formula: 5% of salary * employee rating).
134
135 select EMP_ID, concat(FIRST_NAME," ",LAST_NAME) as NAME, EMP_RATING, SALARY,(SALARY*0.05)*EMP_RATING as BONUS from emp_record_table;
136
137 # 17.Write a query to calculate the average salary distribution based on the continent and country. Take data from the employee record table.
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
EMP_ID NAME EMP_RATING SALARY BONUS
E001 Arthur Black 5 16500 4125.00
E005 Eric Hoffman 3 8500 1275.00
E010 William Butler 2 9000 900.00
E052 Dianna Wilson 5 5500 1375.00
E057 Dorothy Wilson 1 7700 385.00
E083 Patrick Voltz 5 9500 2375.00
E103 Emily Grove 4 10500 2100.00
E204 Karene Nowak 5 7500 1875.00
E245 Nian Zhen 2 6500 650.00
E260 Roy Collins 3 7000 1050.00
E403 Steve Hoffman 3 5000 750.00
E428 Pete Allen 4 11000 2200.00
E478 David Smith 4 4000 800.00
E505 Chad Wilson 2 5000 500.00
E532 Claire Brennan 1 4300 215.00
E583 Janet Hale 2 10000 1000.00
E612 Tracy Norris 4 8500 1700.00
E620 Katrina Allen 1 3000 150.00
E640 Jenifer Jhones 4 2800 560.00
Result 96
Read Only
Information
Schema:
employee
Output
Query Completed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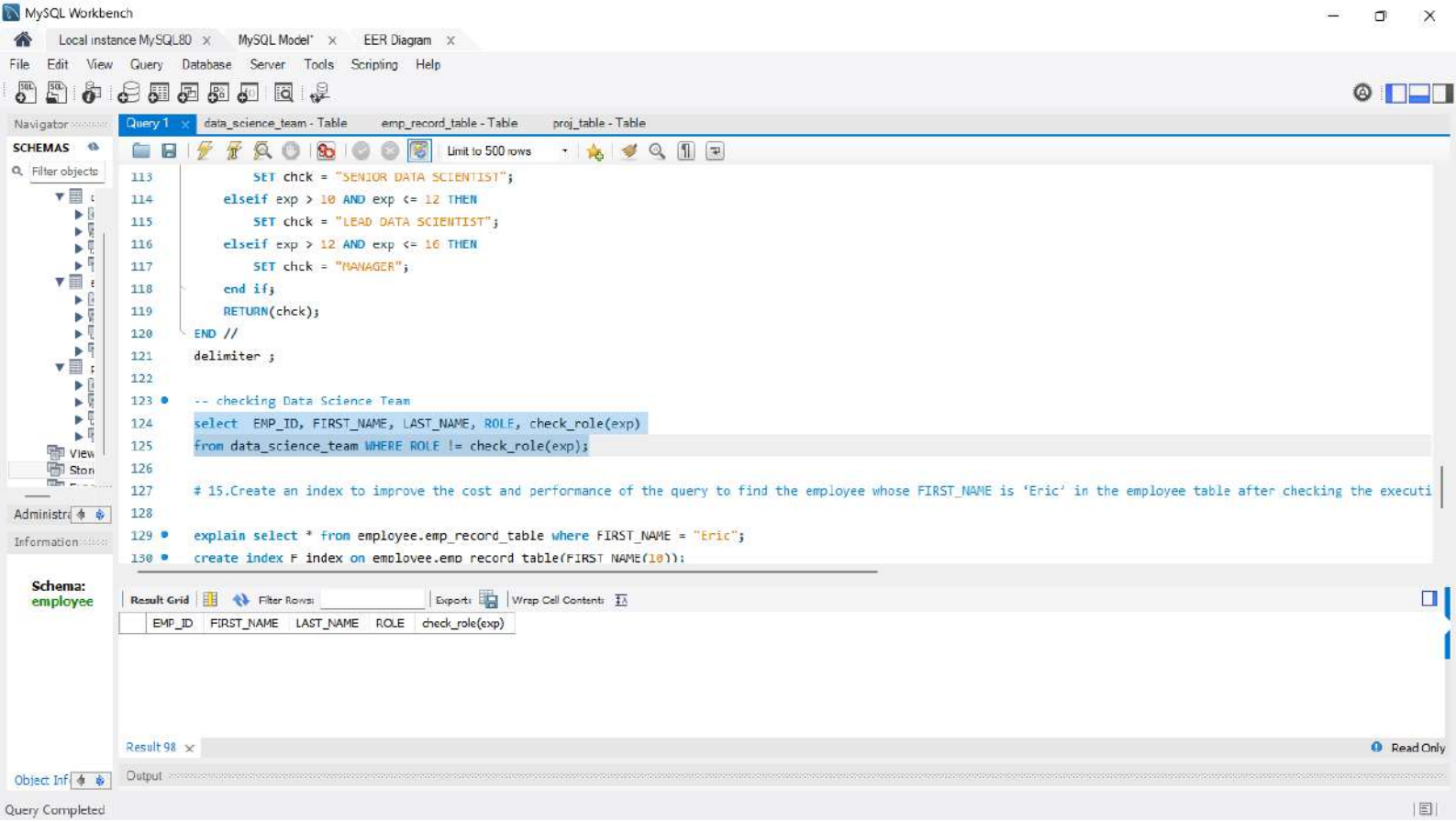
Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
137 # 17.Write a query to calculate the average salary distribution based on the continent and country. Take data from the employee record table.
138
139 select CONTINENT, avg(SALARY) from emp_record_table
140 group by CONTINENT
141 order by CONTINENT;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
CONTINENT avg(SALARY)
ASIA 6250.0000
EUROPE 7950.0000
NORTH AMERICA 8525.0000
SOUTH AMERICA 5600.0000
Administra
Information
Schema:
employee
Object Inf
Result 97
Read Only
Output
Query Completed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Query 1
data_science_team - Table
emp_record_table - Table
proj_table - Table
Limit to 500 rows
SET chck = "SENIOR DATA SCIENTIST";
elseif exp > 10 AND exp <= 12 THEN
SET chck = "LEAD DATA SCIENTIST";
elseif exp > 12 AND exp <= 16 THEN
SET chck = "MANAGER";
end if;
RETURN(chck);
END //
delimiter ;
-- checking Data Science Team
select EMP_ID, FIRST_NAME, LAST_NAME, ROLE, check_role(exp)
from data_science_team WHERE ROLE != check_role(exp);
# 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 executi
explain select * from employee.emp_record_table where FIRST_NAME = "Eric";
create index F index on employee.emp record table(FIRST NAME(10));
Schema:
employee
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
EMP_ID FIRST_NAME LAST_NAME ROLE check_role(exp)
Result 98
Read Only
Output
Query Completed