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SQL Assignment_Part2- SET 2

Starts Here :- P.T.O.



SQL

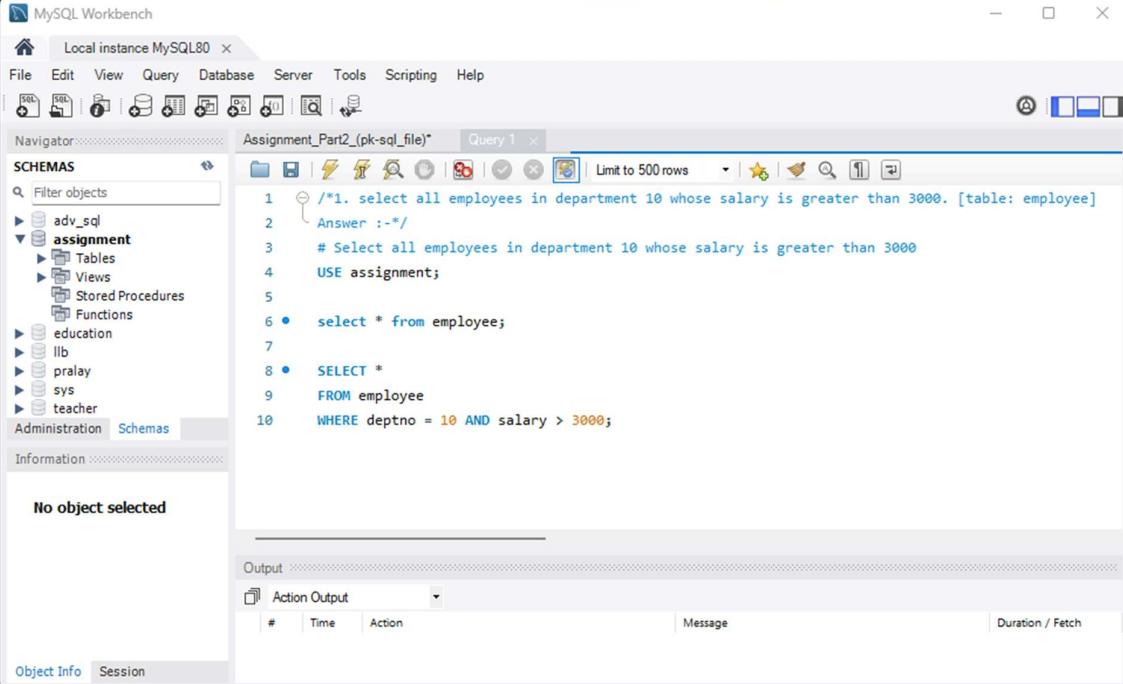
Structured Query Language



SET 2

1. select all employees in department 10 whose salary is greater than 3000. [table: employee]

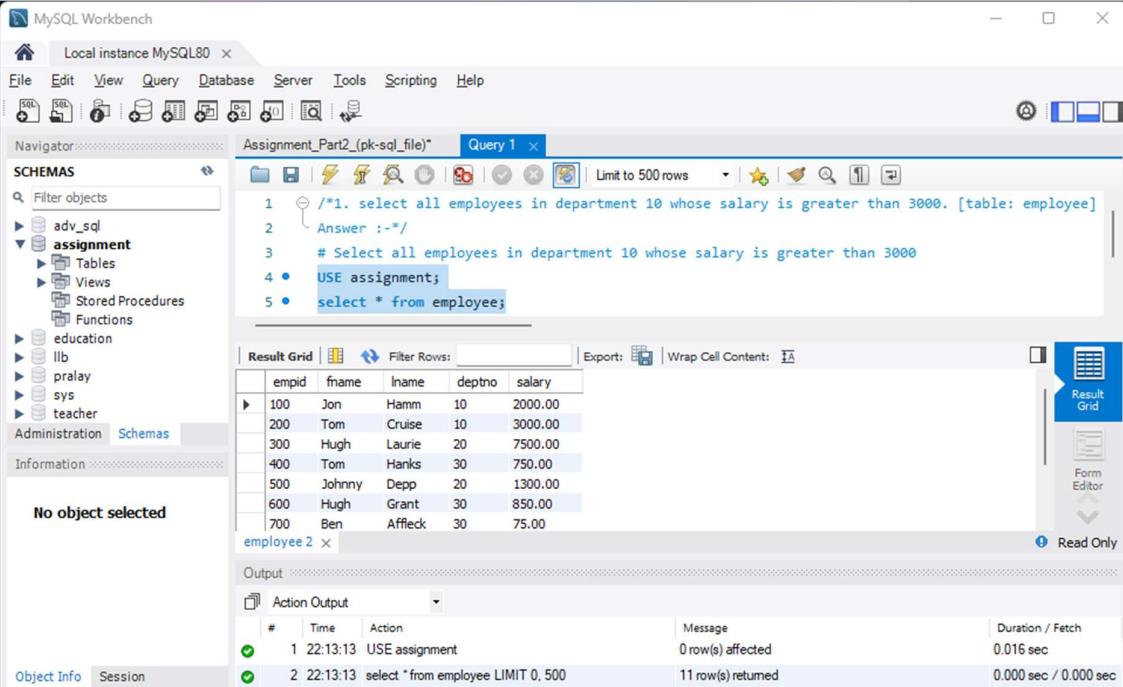
Answer :-



The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the database structure with the schema **assignment** selected.
- Query Editor:** Contains the following SQL code:

```
1 /*1. select all employees in department 10 whose salary is greater than 3000. [table: employee]
2 Answer :*/
3 # Select all employees in department 10 whose salary is greater than 3000
4 USE assignment;
5
6 • select * from employee;
7
8 • SELECT *
9 FROM employee
10 WHERE deptno = 10 AND salary > 3000;
```
- Output:** The output pane is currently empty.



The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the database structure with the schema **assignment** selected.
- Query Editor:** Contains the following SQL code:

```
1 /*1. select all employees in department 10 whose salary is greater than 3000. [table: employee]
2 Answer :*/
3 # Select all employees in department 10 whose salary is greater than 3000
4 USE assignments;
5 • select * from employee;
```
- Result Grid:** Displays the results of the query, showing the following data:

empid	fname	lname	deptno	salary
100	Jon	Hamm	10	2000.00
200	Tom	Cruise	10	3000.00
300	Hugh	Laurie	20	7500.00
400	Tom	Hanks	30	750.00
500	Johnny	Depp	20	1300.00
600	Hugh	Grant	30	850.00
700	Ben	Affleck	30	75.00

- Output:** The output pane shows the execution log:

```
1 22:13:13 USE assignment
2 22:13:13 select * from employee LIMIT 0, 500
```

with messages indicating 0 rows affected and 11 rows returned.

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file)*

SCHEMAS: Local instance MySQL80

Assignment

Tables Views Stored Procedures Functions

Information: No object selected

Query 1:

```
1 /*1. select all employees in department 10 whose salary is greater than 3000. [table: employee]
2 Answer :-*/
3 # Select all employees in department 10 whose salary is greater than 3000
4 USE assignment;
5 select * from employee;
```

Result Grid:

empid	fname	lname	deptno	salary
600	Hugh	Grant	30	850.00
700	Ben	Affleck	30	75.00
800	George	Clooney	10	10000.00
900	Henry	NULL	10	3000.00
1000	Gregory	House	20	3500.00
1100	Jean	Hackman	10	2700.00

employee 2 x

Output:

#	Time	Action	Message	Duration / Fetch
1	22:13:13	USE assignment	0 row(s) affected	0.016 sec
2	22:13:13	select * from employee LIMIT 0, 500	11 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file)*

SCHEMAS: Local instance MySQL80

Assignment

Tables Views Stored Procedures Functions

Information: No object selected

Query 1:

```
4 USE assignment;
5 select * from employee;
6
7 SELECT *
8 FROM employee
9 WHERE deptno = 10 AND salary > 3000;
```

Result Grid:

empid	fname	lname	deptno	salary
800	George	Clooney	10	10000.00

employee 3 x

Output:

#	Time	Action	Message	Duration / Fetch
1	22:15:38	SELECT * FROM employee WHERE deptno = 10 A...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

2. The grading of students based on the marks they have obtained is done as follows:

40 to 50 -> Second Class

50 to 60 -> First Class

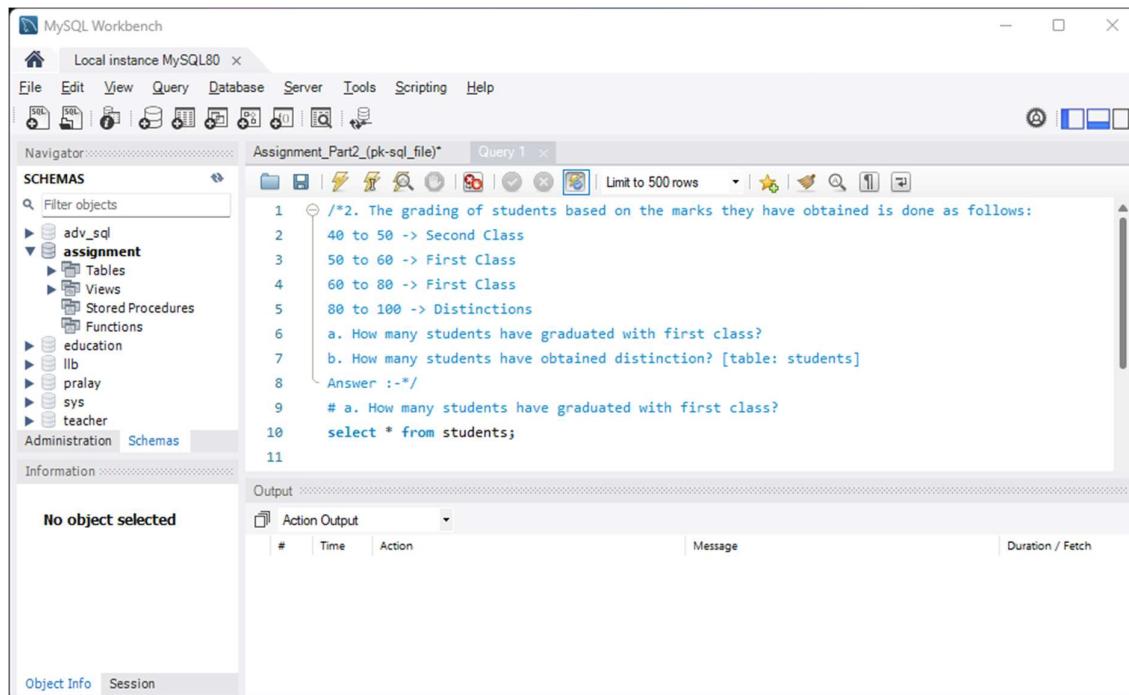
60 to 80 -> First Class

80 to 100 -> Distinctions

a. How many students have graduated with first class?

b. How many students have obtained distinction? [table: students]

Answer :-



The screenshot shows the MySQL Workbench interface. The left pane displays the Navigator with the 'Schemas' tab selected, showing databases like 'adv_sql', 'assignment', 'education', 'llb', 'pralay', 'sys', and 'teacher'. The right pane contains a 'Query 1' editor window with the following SQL code:

```
1 /*2. The grading of students based on the marks they have obtained is done as follows:
2 40 to 50 -> Second Class
3 50 to 60 -> First Class
4 60 to 80 -> First Class
5 80 to 100 -> Distinctions
6 a. How many students have graduated with first class?
7 b. How many students have obtained distinction? [table: students]
8 Answer :-/
9 # a. How many students have graduated with first class?
10 select * from students;
11
```

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file)*

SCHEMAS

- adv_sql
- assignment
- education
- llb
- pralay
- sys
- teacher

Administration Schemas

No object selected

Object Info Session

Query 1

```
10 select * from students;
11
12 SELECT COUNT(*)
13 FROM students
14 WHERE marks >= 50 AND marks < 80;
15
16 # b. How many students have obtained distinction?
17 select * from students;
18
19 SELECT COUNT(*)
20 FROM students
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file)*

SCHEMAS

- adv_sql
- assignment
- education
- llb
- pralay
- sys
- teacher

Administration Schemas

No object selected

Object Info Session

Query 1

```
9 # a. How many students have graduated with first class?
10 select * from students;
11
12 SELECT COUNT(*)
13 FROM students
14 WHERE marks >= 50 AND marks < 80;
```

Result Grid

COUNT(*)
12

Result Grid

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:24:22	select * from students LIMIT 0, 500	25 row(s) returned	0.000 sec / 0.000 sec
2	22:24:22	SELECT COUNT(*) FROM students WHERE marks ...	1 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file)* Query 1

Limit to 500 rows

SCHEMAS

Filter objects

adv_sql assignment education llb pralay sys teacher

Tables Views Stored Procedures Functions

No object selected

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

COUNT(*)

11

students 7 Result 8

Output

Action Output

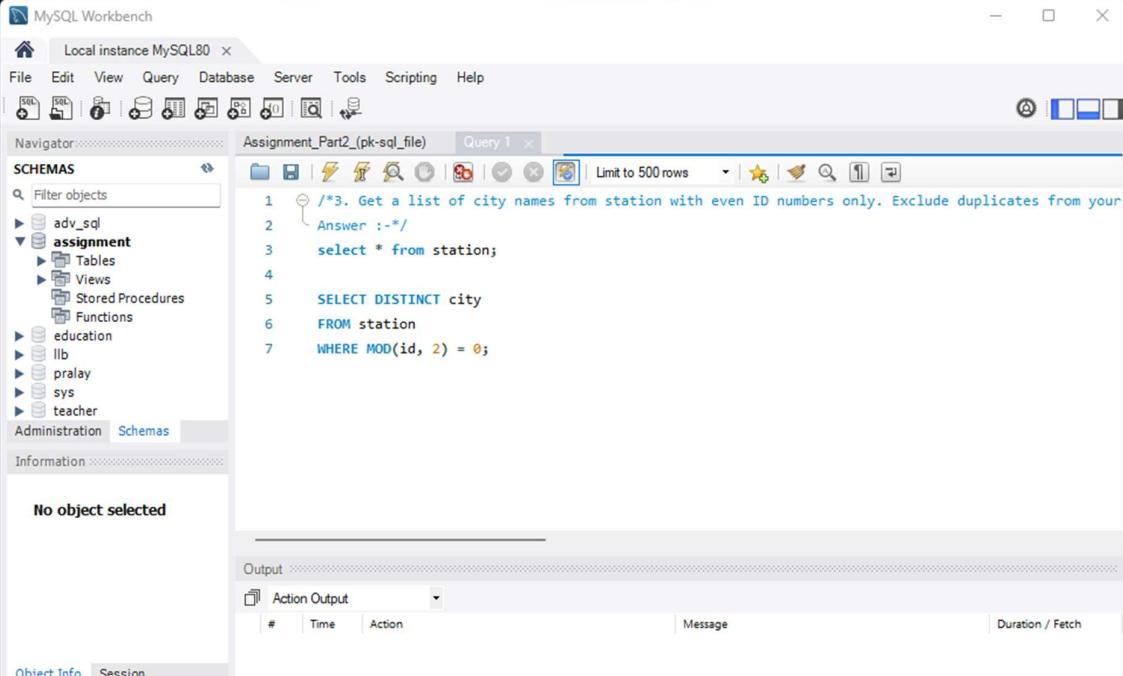
#	Time	Action	Message	Duration / Fetch
1	22:25:20	select * from students LIMIT 0, 500	25 row(s) returned	0.000 sec / 0.000 sec
2	22:25:20	SELECT COUNT(*) FROM students WHERE marks ...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the 'assignment' schema under 'SCHEMAS'. The 'Query 1' tab in the top-right contains a SQL query to find the count of students who obtained distinction. The results are shown in a 'Result Grid' below, with a single row labeled 'COUNT(*)' containing the value '11'. The 'Output' pane at the bottom shows the execution log with two entries: the first selects all students from the 'students' table, and the second executes the count query.

3. Get a list of city names from station with even ID numbers only. Exclude duplicates from your answer.[table: station]

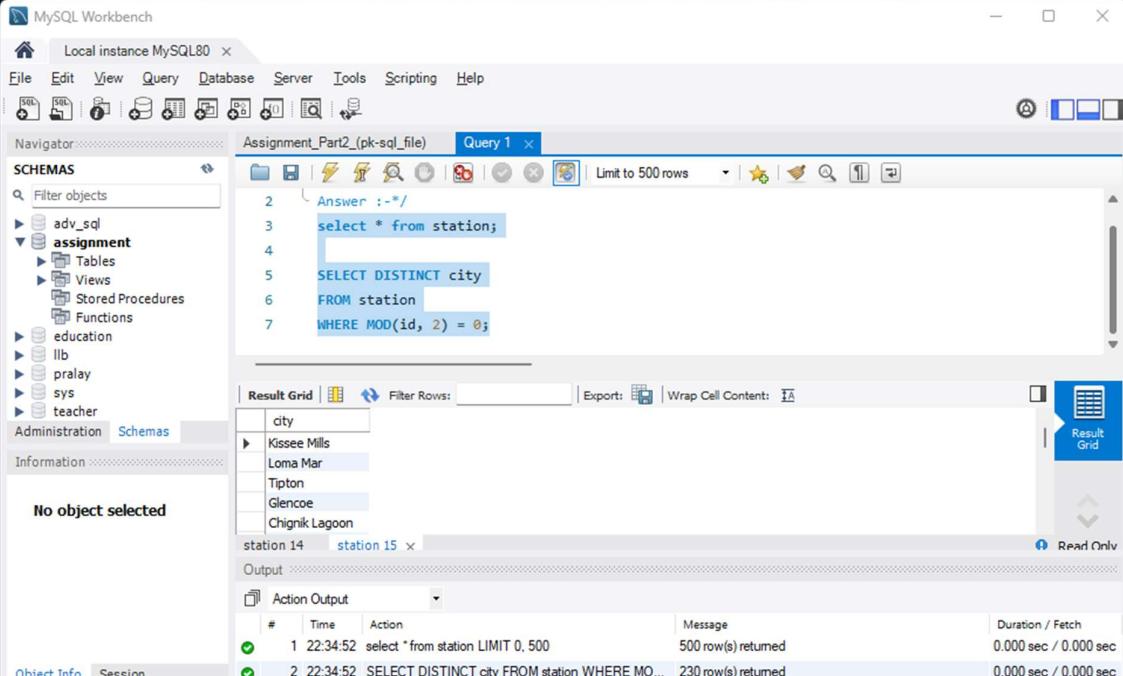
Answer :-



The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (selected), Filter objects, adv_sql, assignment, education, llb, pralay, sys, teacher.
- Query Editor (Query 1):** Contains the following SQL code:

```
1 /*3. Get a list of city names from station with even ID numbers only. Exclude duplicates from your
2 Answer :-/
3 select * from station;
4
5 SELECT DISTINCT city
6 FROM station
7 WHERE MOD(id, 2) = 0;
```
- Output:** Action Output table showing the execution of the query.
- Status Bar:** Object Info, Session.



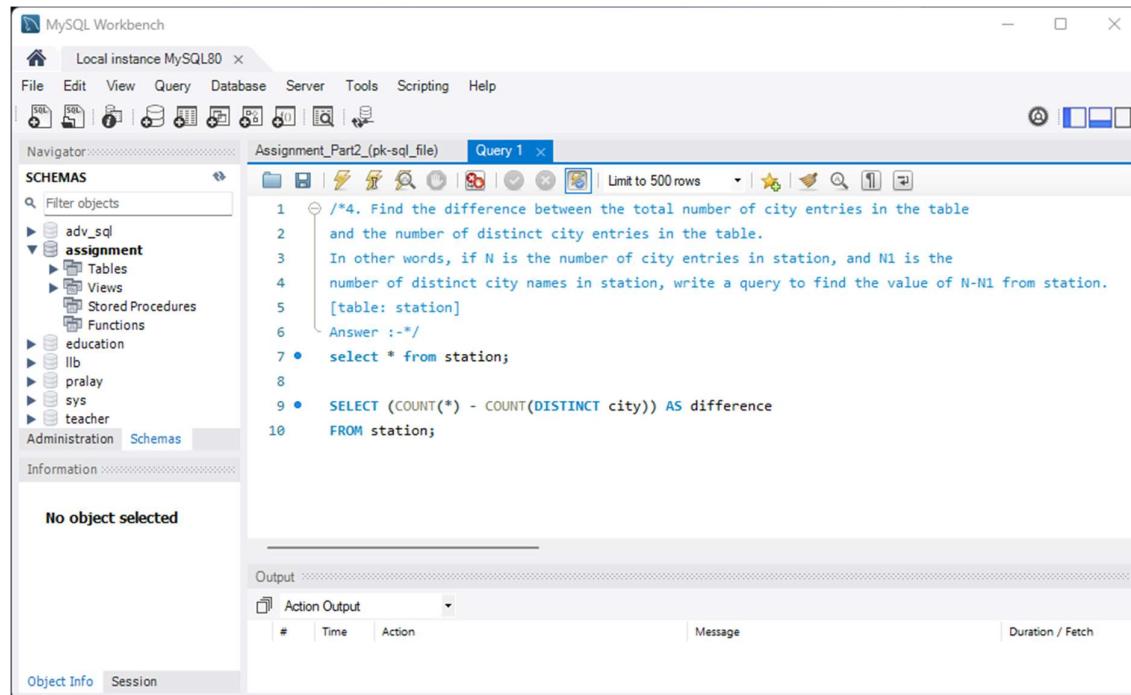
The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (selected), Filter objects, adv_sql, assignment, education, llb, pralay, sys, teacher.
- Query Editor (Query 1):** Contains the following SQL code:

```
2 Answer :-/
3 select * from station;
4
5 SELECT DISTINCT city
6 FROM station
7 WHERE MOD(id, 2) = 0;
```
- Result Grid:** Shows the results of the query, listing city names: Kissée Mills, Loma Mar, Tipton, Glencoe, Chignik Lagoon.
- Output:** Action Output table showing the execution of the query, returning 500 rows.
- Status Bar:** Object Info, Session.

4. Find the difference between the total number of city entries in the table and the number of distinct city entries in the table. In other words, if N is the number of city entries in station, and N1 is the number of distinct city names in station, write a query to find the value of N-N1 from station.
[table: station]

Answer :-

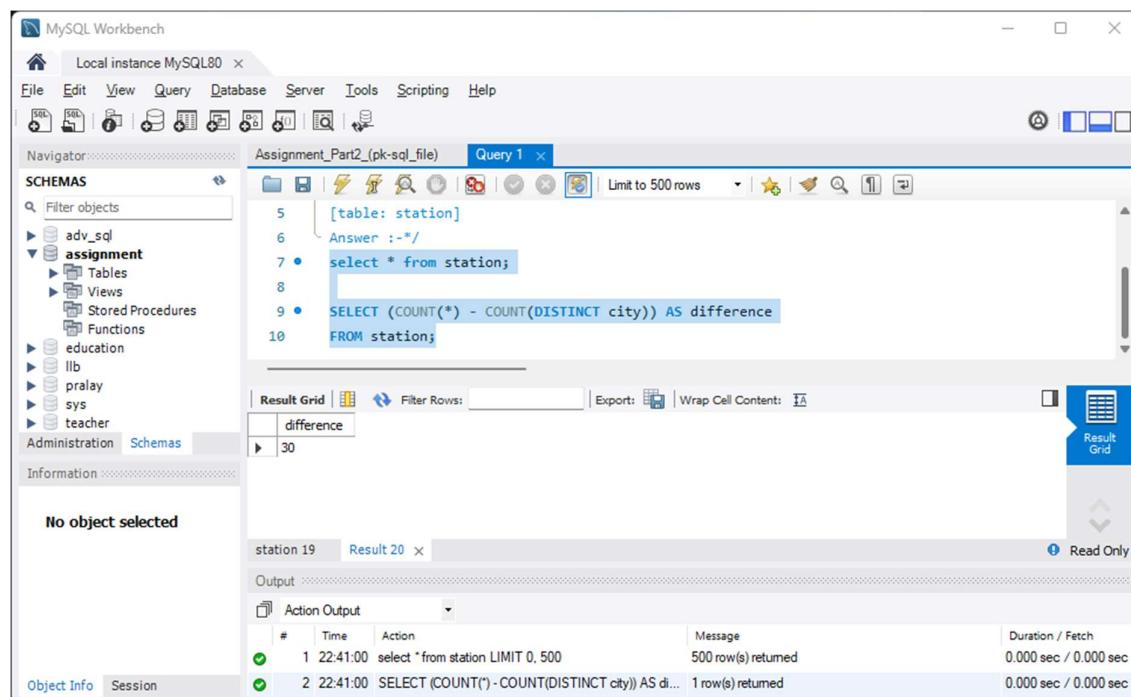


The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (adv_sql, assignment, education, llb, pralay, sys, teacher), Tables, Views, Stored Procedures, Functions.
- Query Editor:** Tab titled "Assignment_Part2_(pk-sql_file)" with the following content:


```

1 /*4. Find the difference between the total number of city entries in the table
2 and the number of distinct city entries in the table.
3 In other words, if N is the number of city entries in station, and N1 is the
4 number of distinct city names in station, write a query to find the value of N-N1 from station.
5 [table: station]
6 Answer :*/
7 • select * from station;
8
9 • SELECT (COUNT(*) - COUNT(DISTINCT city)) AS difference
10 FROM station;
```
- Output:** Action Output tab showing the results of the query.
- Status Bar:** Object Info, Session.



The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (adv_sql, assignment, education, llb, pralay, sys, teacher), Tables, Views, Stored Procedures, Functions.
- Query Editor:** Tab titled "Assignment_Part2_(pk-sql_file)" with the following content:


```

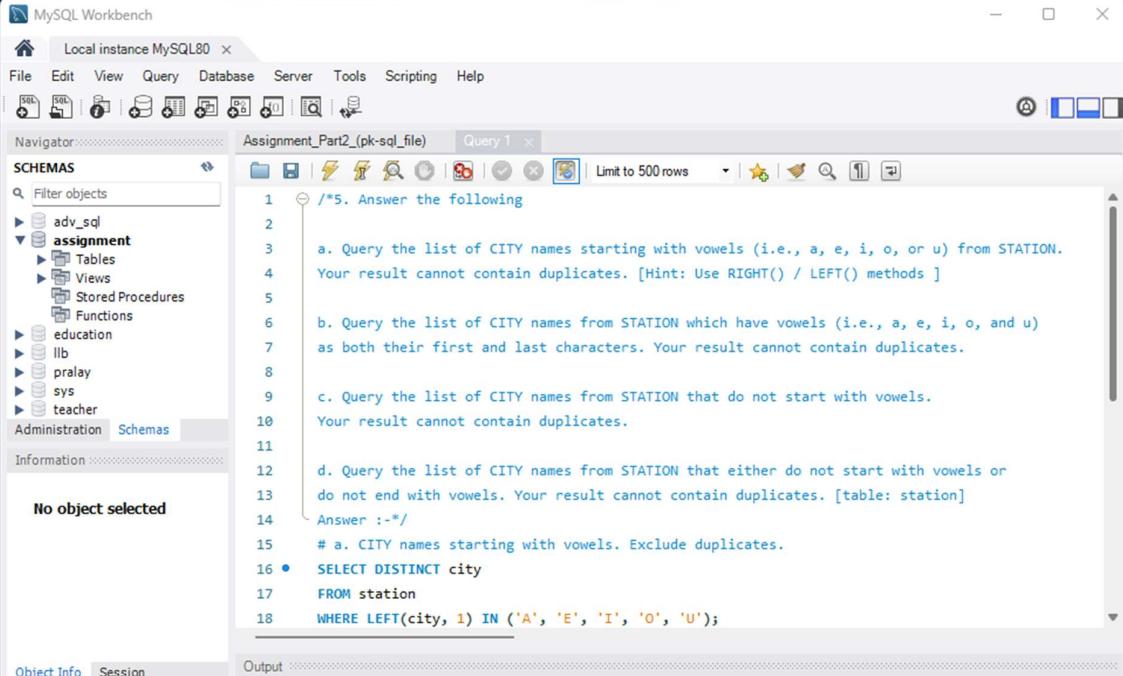
5 [table: station]
6 Answer :*/
7 • select * from station;
8
9 • SELECT (COUNT(*) - COUNT(DISTINCT city)) AS difference
10 FROM station;
```
- Result Grid:** Shows a single row with the value "difference" and "30".
- Output:** Action Output tab showing the execution log:

#	Time	Action	Message	Duration / Fetch
1	22:41:00	select *from station LIMIT 0, 500	500 row(s) returned	0.000 sec / 0.000 sec
2	22:41:00	SELECT (COUNT(*) - COUNT(DISTINCT city)) AS di...	1 row(s) returned	0.000 sec / 0.000 sec
- Status Bar:** Object Info, Session.

5. Answer the following

- a. Query the list of CITY names starting with vowels (i.e., a, e, i, o, or u) from STATION. Your result cannot contain duplicates. [Hint: Use RIGHT() / LEFT() methods]
- b. Query the list of CITY names from STATION which have vowels (i.e., a, e, i, o, and u) as both their first and last characters. Your result cannot contain duplicates.
- c. Query the list of CITY names from STATION that do not start with vowels. Your result cannot contain duplicates.
- d. Query the list of CITY names from STATION that either do not start with vowels or do not end with vowels. Your result cannot contain duplicates. [table: station]

Answer :-



The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Toolbar:** Includes icons for New, Open, Save, Print, Copy, Paste, Find, Replace, and others.
- Navigator:** Shows the database schema with the 'assignment' schema expanded, containing Tables, Views, Stored Procedures, Functions, education, lib, pralay, sys, and teacher.
- Query Editor:** Titled "Assignment_Part2_(pk-sql_file) | Query 1". It contains the following SQL code:

```
1 /*5. Answer the following
2
3 a. Query the list of CITY names starting with vowels (i.e., a, e, i, o, or u) from STATION.
4 Your result cannot contain duplicates. [Hint: Use RIGHT() / LEFT() methods ]
5
6 b. Query the list of CITY names from STATION which have vowels (i.e., a, e, i, o, and u)
7 as both their first and last characters. Your result cannot contain duplicates.
8
9 c. Query the list of CITY names from STATION that do not start with vowels.
10 Your result cannot contain duplicates.
11
12 d. Query the list of CITY names from STATION that either do not start with vowels or
13 do not end with vowels. Your result cannot contain duplicates. [table: station]
14 Answer :-/
15 # a. CITY names starting with vowels. Exclude duplicates.
16 • SELECT DISTINCT city
17   FROM station
18   WHERE LEFT(city, 1) IN ('A', 'E', 'I', 'O', 'U');
```
- Status Bar:** Shows "Object Info" and "Session" tabs.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file) Query 1

19
20 # b. CITY names with vowels as both first and last characters. Exclude duplicates.
21 • SELECT DISTINCT city
22 FROM station
23 WHERE LEFT(city, 1) IN ('A', 'E', 'I', 'O', 'U')
24 AND RIGHT(city, 1) IN ('A', 'E', 'I', 'O', 'U');
25
26 # c. CITY names that do not start with vowels. Exclude duplicates.
27 • SELECT DISTINCT city
28 FROM station
29 WHERE LEFT(city, 1) NOT IN ('A', 'E', 'I', 'O', 'U');
30
31 # d. CITY names that either do not start with vowels or do not end with vowels. Exclude duplicates.
32 • SELECT DISTINCT city
33 FROM station
34 WHERE LEFT(city, 1) NOT IN ('A', 'E', 'I', 'O', 'U')
35 OR RIGHT(city, 1) NOT IN ('A', 'E', 'I', 'O', 'U');

No object selected

Object Info Session Output

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file) Query 1

13 do not end with vowels. Your result cannot contain duplicates. [table: station]
14 Answer :*/
15 # a. CITY names starting with vowels. Exclude duplicates.
16 • SELECT DISTINCT city
17 FROM station
18 WHERE LEFT(city, 1) IN ('A', 'E', 'I', 'O', 'U');
19

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

city
Arlington
Albany
Upperco
Aguanga
Odin
East

station 21

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:46:16	SELECT DISTINCT city FROM station WHERE LEF...	62 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file) Query 1

Limit to 500 rows

```
19
20      # b. CITY names with vowels as both first and last characters. Exclude duplicates.
21 •   SELECT DISTINCT city
22     FROM station
23     WHERE LEFT(city, 1) IN ('A', 'E', 'I', 'O', 'U')
24       AND RIGHT(city, 1) IN ('A', 'E', 'I', 'O', 'U');
25
```

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

city
Upperco
Aguanga
Amo
Eele
Oconee
Amazonia

station 22 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:47:20	SELECT DISTINCT city FROM station WHERE LEF...	26 row(s) returned	0.000 sec / 0.000 sec

No object selected

Object Info Session

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file) Query 1

Limit to 500 rows

```
24     AND RIGHT(city, 1) IN ('A', 'E', 'I', 'O', 'U');
25
26      # c. CITY names that do not start with vowels. Exclude duplicates.
27 •   SELECT DISTINCT city
28     FROM station
29     WHERE LEFT(city, 1) NOT IN ('A', 'E', 'I', 'O', 'U');
30
```

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

city
Kissie Mills
Loma Mar
Sandy Hook
Tipton
Turner
Slidell

station 23 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:48:14	SELECT DISTINCT city FROM station WHERE LEF...	409 row(s) returned	0.000 sec / 0.000 sec

No object selected

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file) Query 1 x

SCHEMAS

Filter objects

adv_sql assignment education llb pralay sys teacher

No object selected

Information

Object Info Session

Query 1 x

29 WHERE LEFT(city, 1) NOT IN ('A', 'E', 'I', 'O', 'U');

30

31 # d. CITY names that either do not start with vowels or do not end with vowels. Exclude duplicates

32 SELECT DISTINCT city

33 FROM station

34 WHERE LEFT(city, 1) NOT IN ('A', 'E', 'I', 'O', 'U')

OR RIGHT(city, 1) NOT IN ('A', 'E', 'I', 'O', 'U');

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Read Only

city

Kissee Mills
Loma Mar
Sandy Hook
Tipton
Arlington
Turner

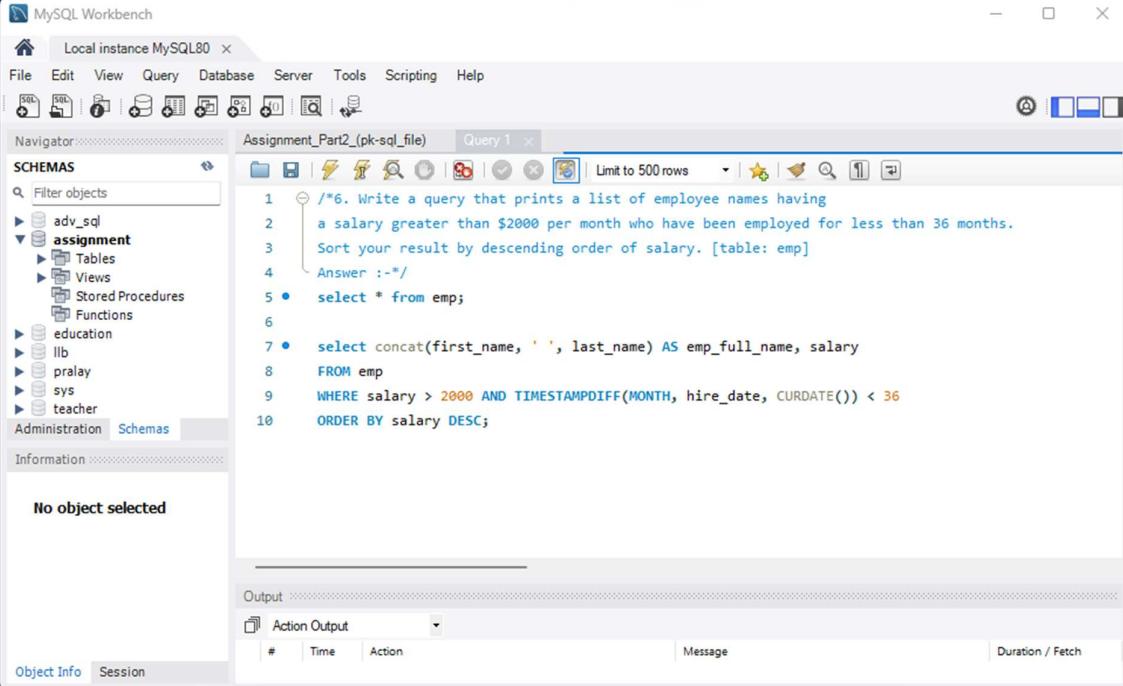
station 24 x

Action Output

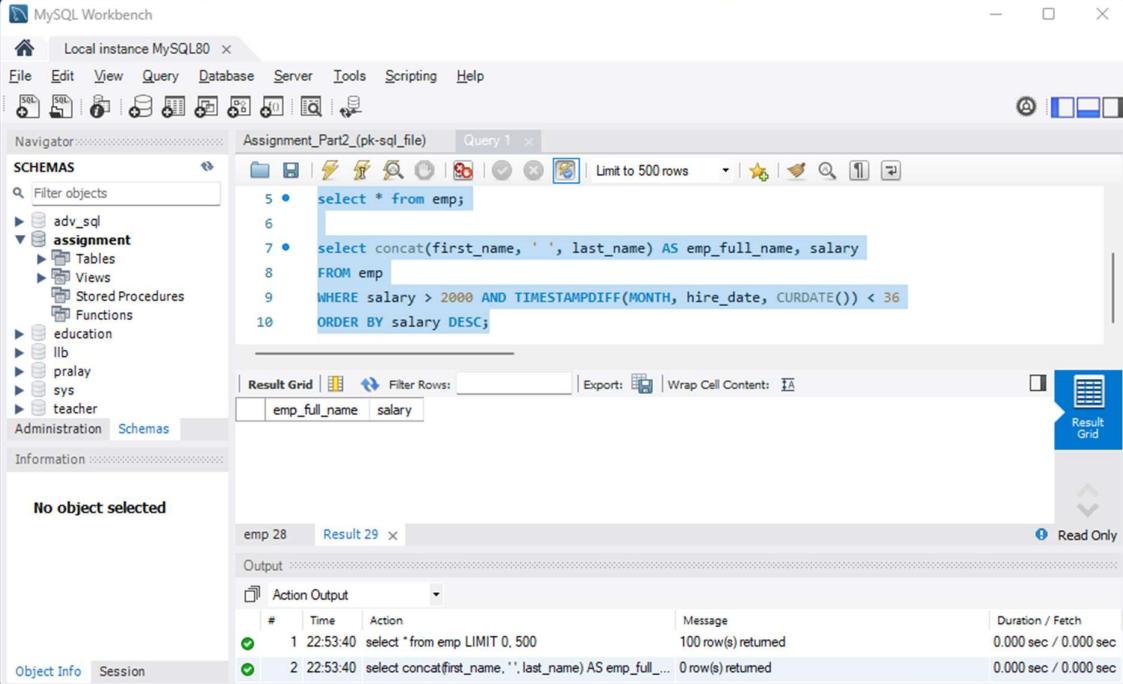
#	Time	Action	Message	Duration / Fetch
1	22:48:54	SELECT DISTINCT city FROM station WHERE LEF...	445 row(s) returned	0.000 sec / 0.000 sec

6. Write a query that prints a list of employee names having a salary greater than \$2000 per month who have been employed for less than 36 months. Sort your result by descending order of salary.
[table: emp]

Answer :-



```
MySQL Workbench - Local instance MySQL80 - Query 1
File Edit View Query Database Server Tools Scripting Help
Navigator Schemas Assignment_Part2_(pk-sql_file) Query 1
Limit to 500 rows
1 /*6. Write a query that prints a list of employee names having
2 a salary greater than $2000 per month who have been employed for less than 36 months.
3 Sort your result by descending order of salary. [table: emp]
4 Answer :-/
5 select * from emp;
6
7 select concat(first_name, ' ', last_name) AS emp_full_name, salary
8 FROM emp
9 WHERE salary > 2000 AND TIMESTAMPDIFF(MONTH, hire_date, CURDATE()) < 36
10 ORDER BY salary DESC;
```



```
MySQL Workbench - Local instance MySQL80 - Query 1
File Edit View Query Database Server Tools Scripting Help
Navigator Schemas Assignment_Part2_(pk-sql_file) Query 1
Limit to 500 rows
5 select * from emp;
6
7 select concat(first_name, ' ', last_name) AS emp_full_name, salary
8 FROM emp
9 WHERE salary > 2000 AND TIMESTAMPDIFF(MONTH, hire_date, CURDATE()) < 36
10 ORDER BY salary DESC;
```

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

emp_full_name	salary
emp 28	Result 29

Action Output

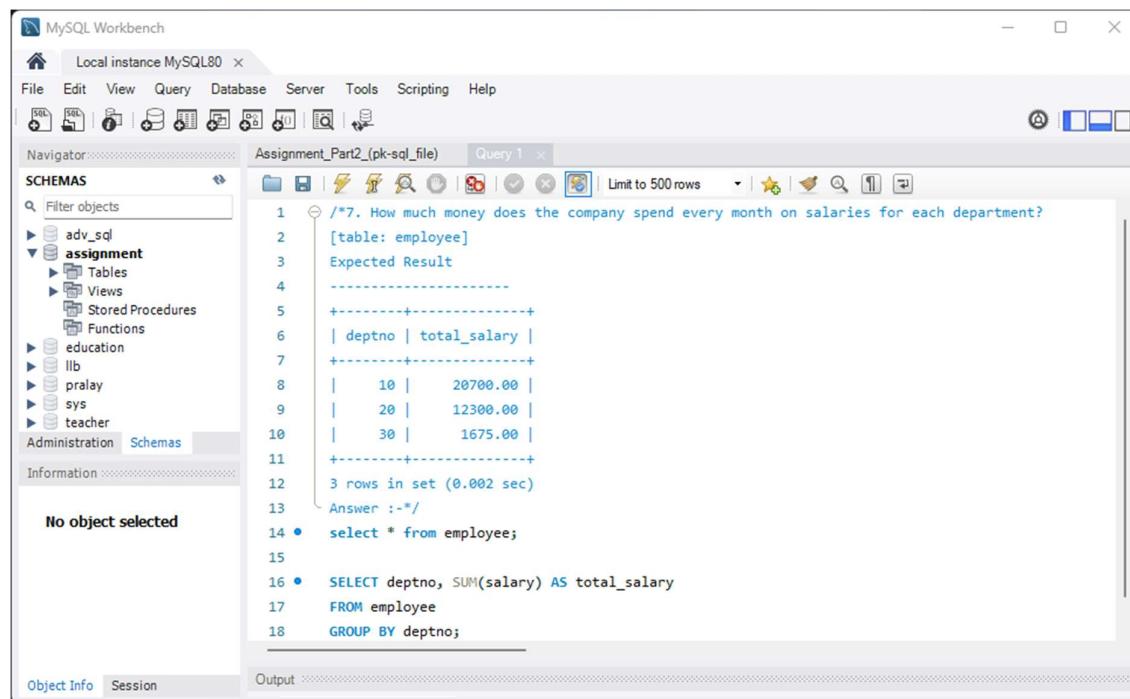
#	Time	Action	Message	Duration / Fetch
1	22:53:40	select * from emp LIMIT 0, 500	100 row(s) returned	0.000 sec / 0.000 sec
2	22:53:40	select concat(first_name,' ',last_name) AS emp_full_...	0 row(s) returned	0.000 sec / 0.000 sec

7. How much money does the company spend every month on salaries for each department? [table: employee]

Expected Result

```
+-----+
| deptno | total_salary |
+-----+
| 10 | 20700.00 |
| 20 | 12300.00 |
| 30 | 1675.00 |
+-----+
3 rows in set (0.002 sec)
```

Answer :-



The screenshot shows the MySQL Workbench interface. The left sidebar displays the Navigator with the 'Schemas' tab selected, showing databases like adv_sql, assignment, education, lib, pralay, sys, and teacher. The main area is titled 'Assignment_Part2_(pk-sql_file)' and contains a 'Query 1' tab. The query editor window shows the following content:

```
1 /*7. How much money does the company spend every month on salaries for each department?
2 [table: employee]
3 Expected Result
4 -----
5 +-----+
6 | deptno | total_salary |
7 +-----+
8 | 10 | 20700.00 |
9 | 20 | 12300.00 |
10 | 30 | 1675.00 |
11 +-----+
12 3 rows in set (0.002 sec)
13 Answer :*/
14 • select * from employee;
15
16 • SELECT deptno, SUM(salary) AS total_salary
17   FROM employee
18   GROUP BY deptno;
```

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file) Query 1

SCHEMAS

- adv_sql
- assignment
- education
- llb
- pralay
- sys
- teacher

Administration Schemas

No object selected

Result Grid

deptno	total_salary
10	20700.00
20	12300.00
30	1675.00

employee 31 Result 32

Output

#	Time	Action	Message	Duration / Fetch
1	22:57:45	select * from employee LIMIT 0, 500	11 row(s) returned	0.000 sec / 0.000 sec
2	22:57:45	SELECT deptno, SUM(salary) AS total_salary FROM employee GROUP BY deptno;	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file) Query 1

SCHEMAS

- adv_sql
- assignment
- education
- llb
- pralay
- sys
- teacher

Administration Schemas

No object selected

Result Grid

deptno	total_salary
10	20700.00
20	12300.00
30	1675.00

employee 31 Result 32

Output

#	Time	Action	Message	Duration / Fetch
1	22:57:45	select * from employee LIMIT 0, 500	11 row(s) returned	0.000 sec / 0.000 sec
2	22:57:45	SELECT deptno, SUM(salary) AS total_salary FROM employee GROUP BY deptno;	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

8. How many cities in the CITY table have a Population larger than 100000. [table: city]

Answer :-

The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (adv_sql, assignment, education, llb, pralay, sys, teacher), Administration, Schemas.
- Query Editor:** Title: Assignment_Part2_(pk-sql_file)*, Tab: Query 1, Content:

```
1 /*8. How many cities in the CITY table have a Population larger than 100000. [table: city]
2 Answer :-/
3 select * from city;
4
5 SELECT COUNT(*)
6 FROM city
7 WHERE population > 100000;
```
- Output:** Action Output, Result Grid (empty).
- Session:** Object Info, Session.

The screenshot shows the MySQL Workbench interface after executing the query, with the following details:

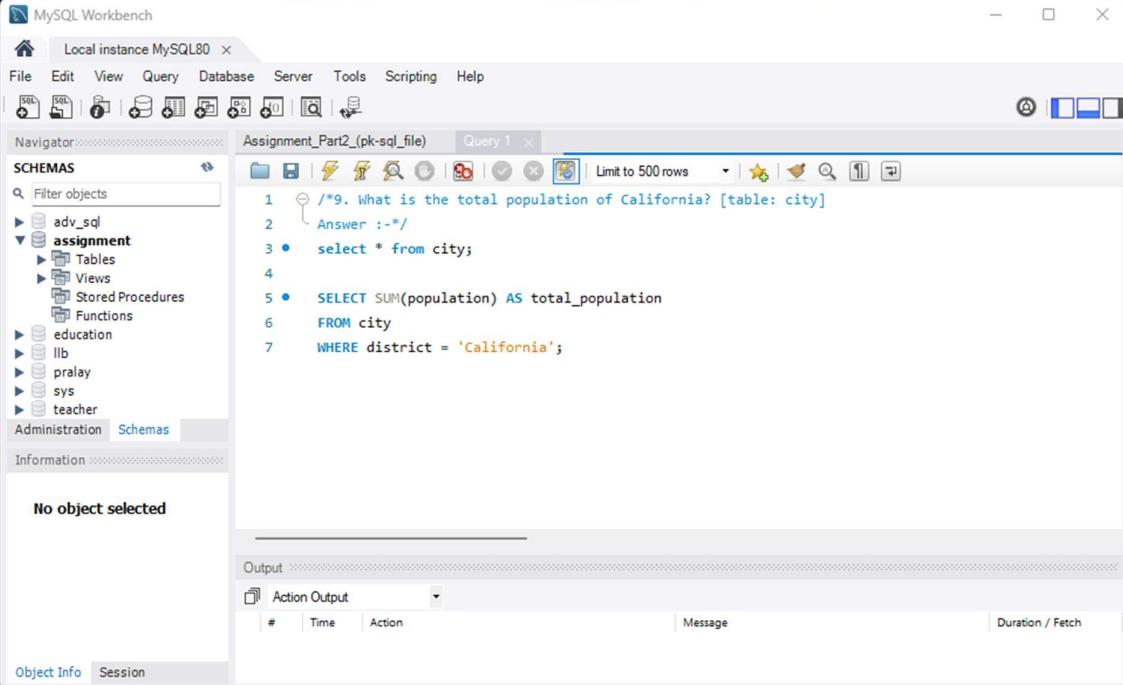
- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (adv_sql, assignment, education, llb, pralay, sys, teacher), Administration, Schemas.
- Query Editor:** Title: Assignment_Part2_(pk-sql_file)*, Tab: Query 1, Content:

```
2 Answer :-/
3 select * from city;
4
5 SELECT COUNT(*)
6 FROM city
7 WHERE population > 100000;
```
- Output:** Action Output, Result Grid (Result 37):

COUNT(*)
11
- Session:** Object Info, Session.

9. What is the total population of California? [table: city]

Answer :-



MySQL Workbench - Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file) Query 1

SCHEMAS: adv_sql, assignment, education, llb, pralay, sys, teacher

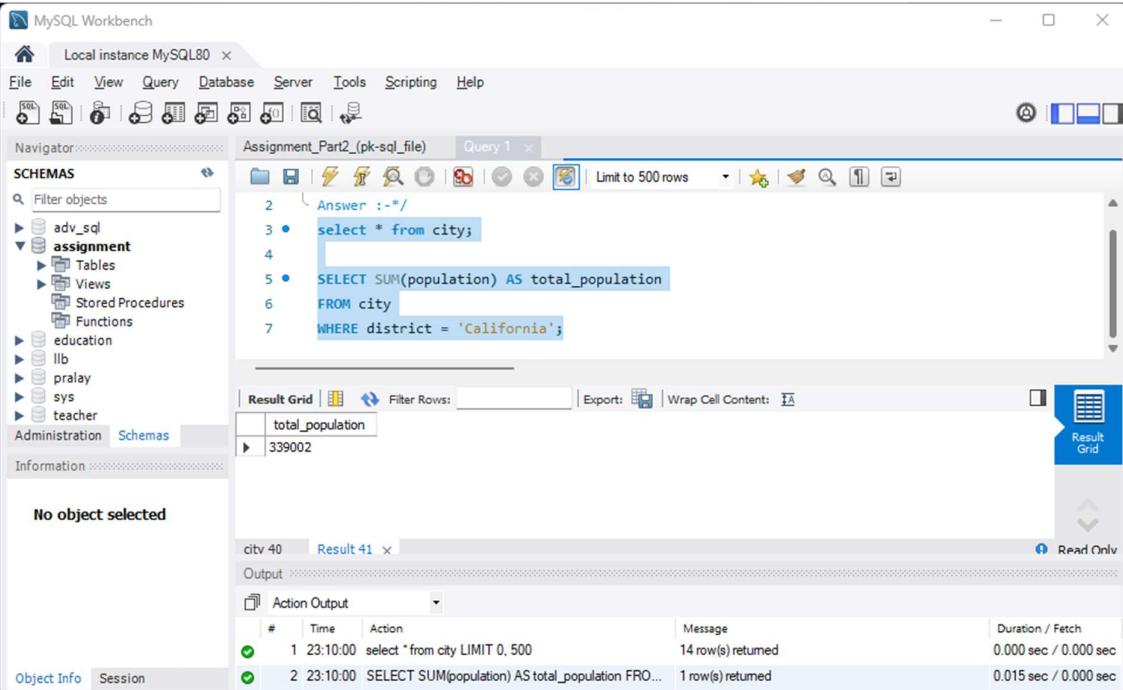
Assignment_Schemas

Information: No object selected

Object Info Session

```
1 /*9. What is the total population of California? [table: city]
2 Answer :-/
3 • select * from city;
4
5 • SELECT SUM(population) AS total_population
6 FROM city
7 WHERE district = 'California';
```

Output: Action Output # Time Action Message Duration / Fetch



MySQL Workbench - Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file) Query 1

SCHEMAS: adv_sql, assignment, education, llb, pralay, sys, teacher

Assignment_Schemas

Information: No object selected

Object Info Session

```
2 Answer :-/
3 • select * from city;
4
5 • SELECT SUM(population) AS total_population
6 FROM city
7 WHERE district = 'California';
```

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

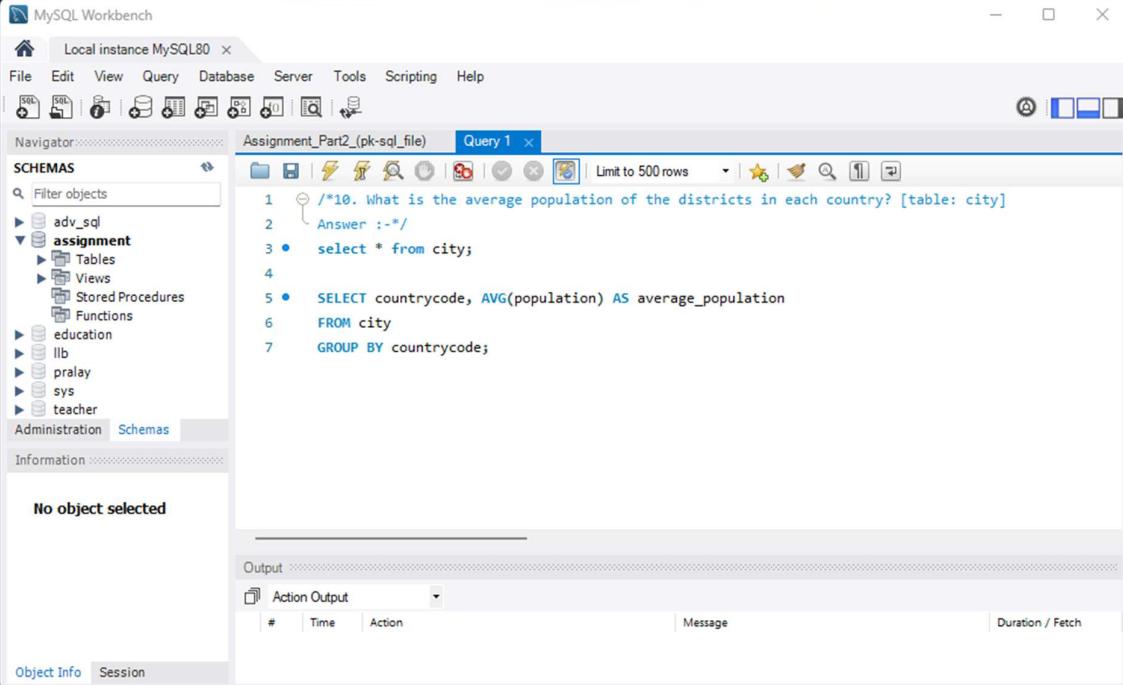
total_population
339002

Output: Action Output # Time Action Message Duration / Fetch

#	Time	Action	Message	Duration / Fetch
1	23:10:00	select * from city LIMIT 0, 500	14 row(s) returned	0.000 sec / 0.000 sec
2	23:10:00	SELECT SUM(population) AS total_population FRO...	1 row(s) returned	0.015 sec / 0.000 sec

10. What is the average population of the districts in each country? [table: city]

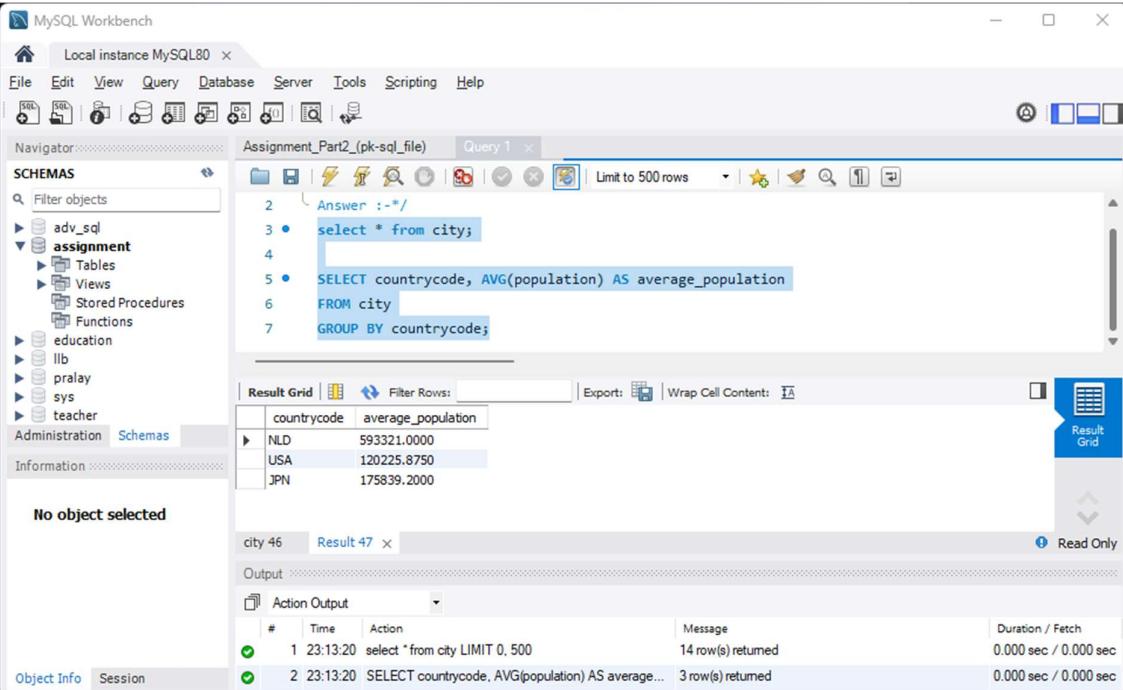
Answer :-



The screenshot shows the MySQL Workbench interface with the following details:

- Title Bar:** MySQL Workbench, Local instance MySQL80.
- File Menu:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Toolbar:** Includes icons for Home, New Connection, Open Connection, Save, Print, Copy, Paste, Find, Replace, and others.
- Navigator:** Shows the database schema with the **assignment** schema expanded, containing Tables, Views, Stored Procedures, and Functions.
- Query Editor:** Tab titled "Assignment_Part2_(pk-sql_file)" with "Query 1". The SQL code is:

```
1 /*10. What is the average population of the districts in each country? [table: city]
2 Answer :*/
3 • select * from city;
4
5 • SELECT countrycode, AVG(population) AS average_population
6 FROM city
7 GROUP BY countrycode;
```



The screenshot shows the MySQL Workbench interface with the following details:

- Title Bar:** MySQL Workbench, Local instance MySQL80.
- File Menu:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Toolbar:** Includes icons for Home, New Connection, Open Connection, Save, Print, Copy, Paste, Find, Replace, and others.
- Navigator:** Shows the database schema with the **assignment** schema expanded, containing Tables, Views, Stored Procedures, and Functions.
- Query Editor:** Tab titled "Assignment_Part2_(pk-sql_file)" with "Query 1". The SQL code is:

```
2 Answer :/
3 • select * from city;
4
5 • SELECT countrycode, AVG(population) AS average_population
6 FROM city
7 GROUP BY countrycode;
```

Result Grid: Displays the results of the query:

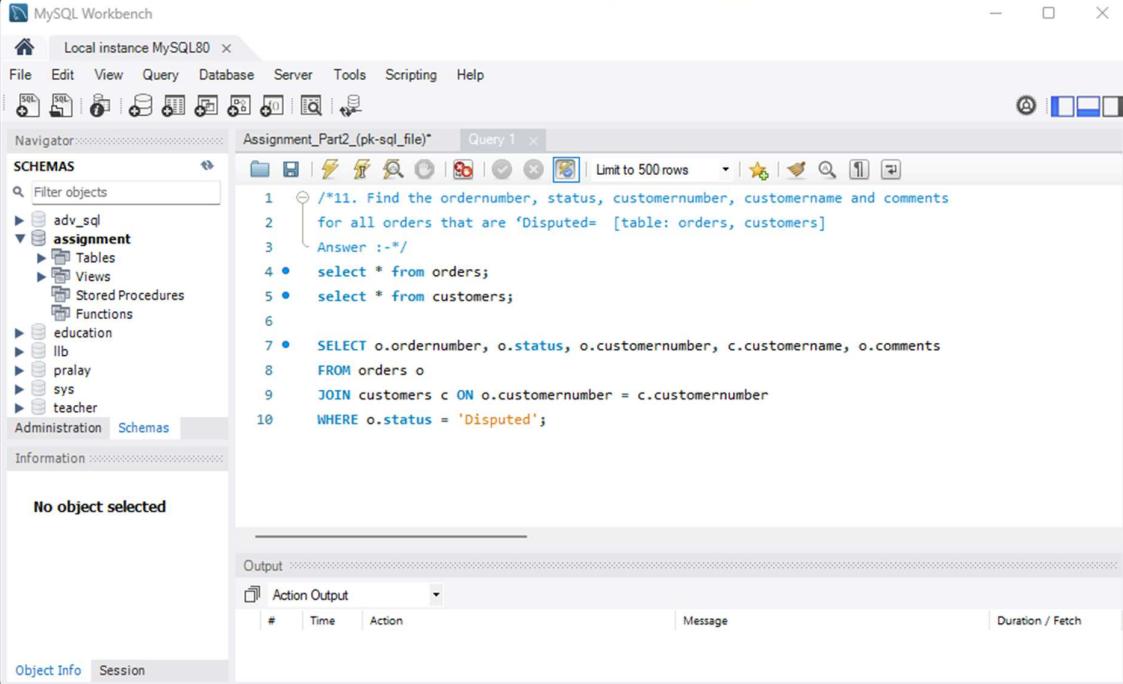
countrycode	average_population
NLD	593321.0000
USA	120225.8750
JPN	175839.2000

Output: Shows the execution log:

- # 1 23:13:20 select * from city LIMIT 0, 500 14 row(s) returned 0.000 sec / 0.000 sec
- # 2 23:13:20 SELECT countrycode, AVG(population) AS average... 3 row(s) returned 0.000 sec / 0.000 sec

11. Find the ordernumber, status, customernumber, customername and comments for all orders that are 'Disputed' [table: orders, customers]

Answer :-



```
MySQL Workbench - Local instance MySQL80 - Assignment_Part2_(pk-sql_file)* - Query 1
```

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS

- adv_sql
- assignment
- education
- llb
- pralay
- sys
- teacher

Administration Schemas

No object selected

Information

Object Info Session

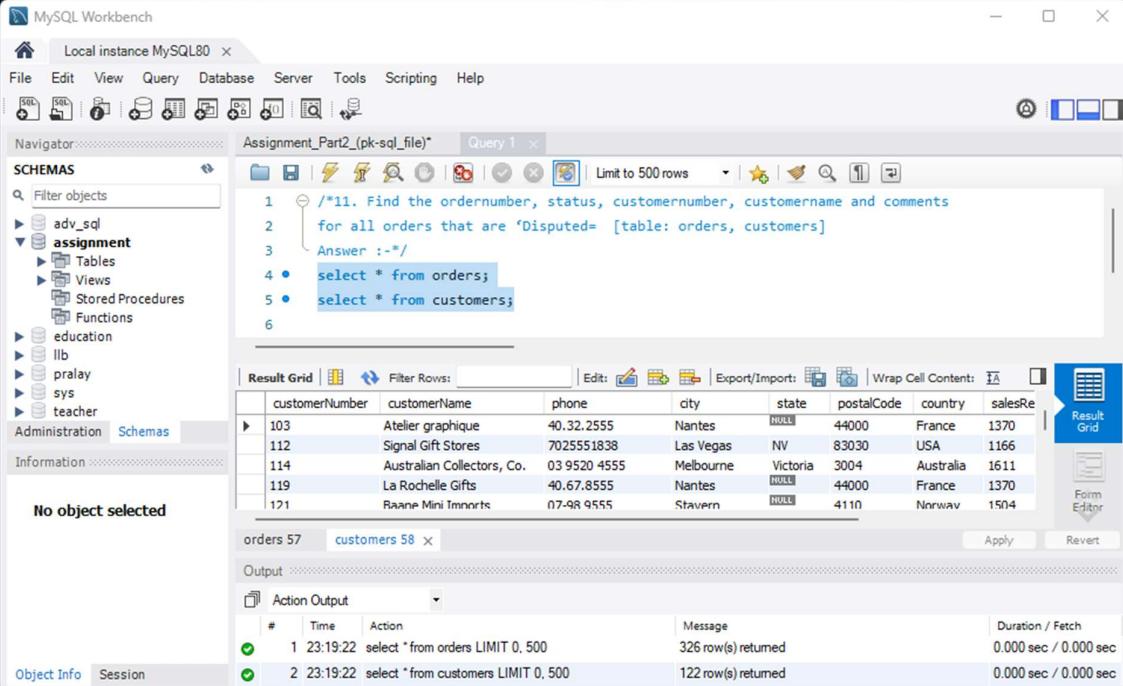
Query 1

```
1 /*11. Find the ordernumber, status, customernumber, customername and comments
2 for all orders that are 'Disputed' [table: orders, customers]
3 Answer :-/
4 select * from orders;
5 select * from customers;
6
7 SELECT o.ordernumber, o.status, o.customernumber, c.customername, o.comments
8 FROM orders o
9 JOIN customers c ON o.customernumber = c.customernumber
10 WHERE o.status = 'Disputed';
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	23:19:22	select * from orders LIMIT 0, 500	326 row(s) returned	0.000 sec / 0.000 sec
2	23:19:22	select * from customers LIMIT 0, 500	122 row(s) returned	0.000 sec / 0.000 sec



```
MySQL Workbench - Local instance MySQL80 - Assignment_Part2_(pk-sql_file)* - Query 1
```

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS

- adv_sql
- assignment
- education
- llb
- pralay
- sys
- teacher

Administration Schemas

No object selected

Information

Object Info Session

Query 1

```
1 /*11. Find the ordernumber, status, customernumber, customername and comments
2 for all orders that are 'Disputed' [table: orders, customers]
3 Answer :-/
4 select * from orders;
5 select * from customers;
6
```

Result Grid

customerNumber	customerName	phone	city	state	postalCode	country	salesRep
103	Atelier graphique	40.32.2555	Nantes	NULL	44000	France	1370
112	Signal Gift Stores	7025551838	Las Vegas	NV	83030	USA	1166
114	Australian Collectors, Co.	03 9520 4555	Melbourne	Victoria	3004	Australia	1611
119	La Rochelle Gifts	40.67.8555	Nantes	NULL	44000	France	1370
121	Baane Mini Imports	07-98 9555	Stavrn	NULL	4110	Norway	1504

orders 57 customers 58

Action Output

#	Time	Action	Message	Duration / Fetch
1	23:19:22	select * from orders LIMIT 0, 500	326 row(s) returned	0.000 sec / 0.000 sec
2	23:19:22	select * from customers LIMIT 0, 500	122 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Assignment_Part2_(pk-sql_file)*

SCHEMAS: adv_sql, assignment, education, lib, pralay, sys, teacher

No object selected

Query 1:

```
5 • select * from customers;
6
7 • SELECT o.ordernumber, o.status, o.customernumber, c.customername, o.comments
8 FROM orders o
9 JOIN customers c ON o.customernumber = c.customernumber
10 WHERE o.status = 'Disputed';
```

Result Grid:

ordernumber	status	customernumber	customername	comments
10406	Disputed	145	Danish Wholesale Imports	Customer claims container with shipment was d...
10415	Disputed	471	Australian Collectables, Ltd	Customer claims the scales of the models don't ...
10417	Disputed	141	Euro+ Shopping Channel	Customer doesn't like the colors and precision o...

Result 59 x

Output:

#	Time	Action	Message	Duration / Fetch
1	23:20:23	SELECT o.ordernumber, o.status, o.customernumber...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid

Form Editor

Read Only

END.