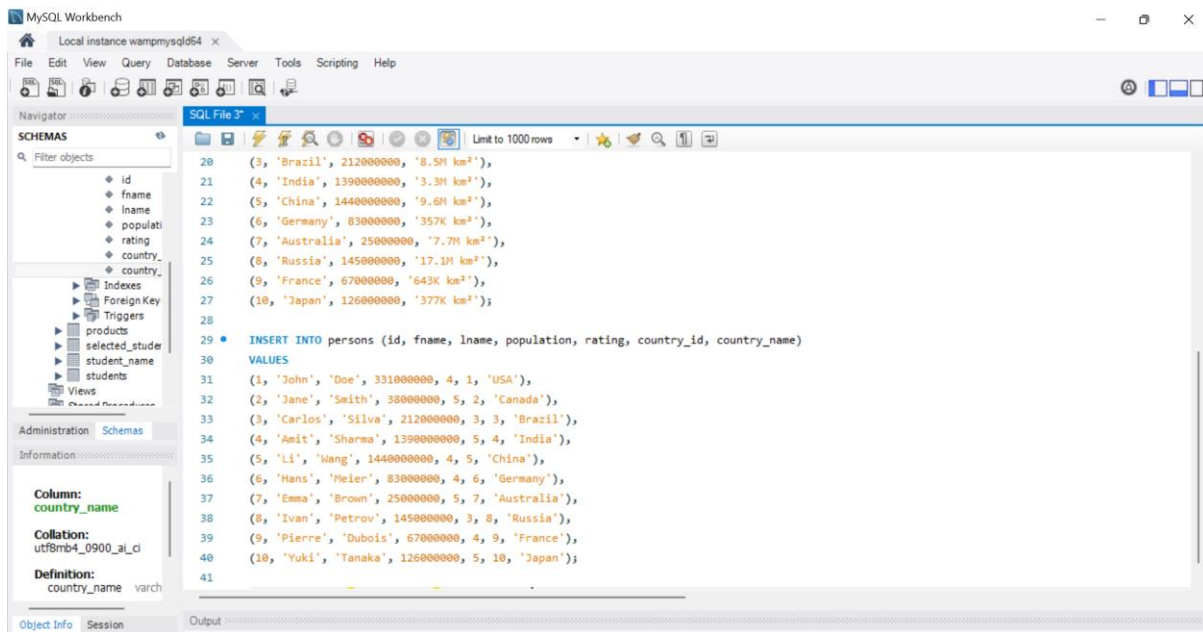
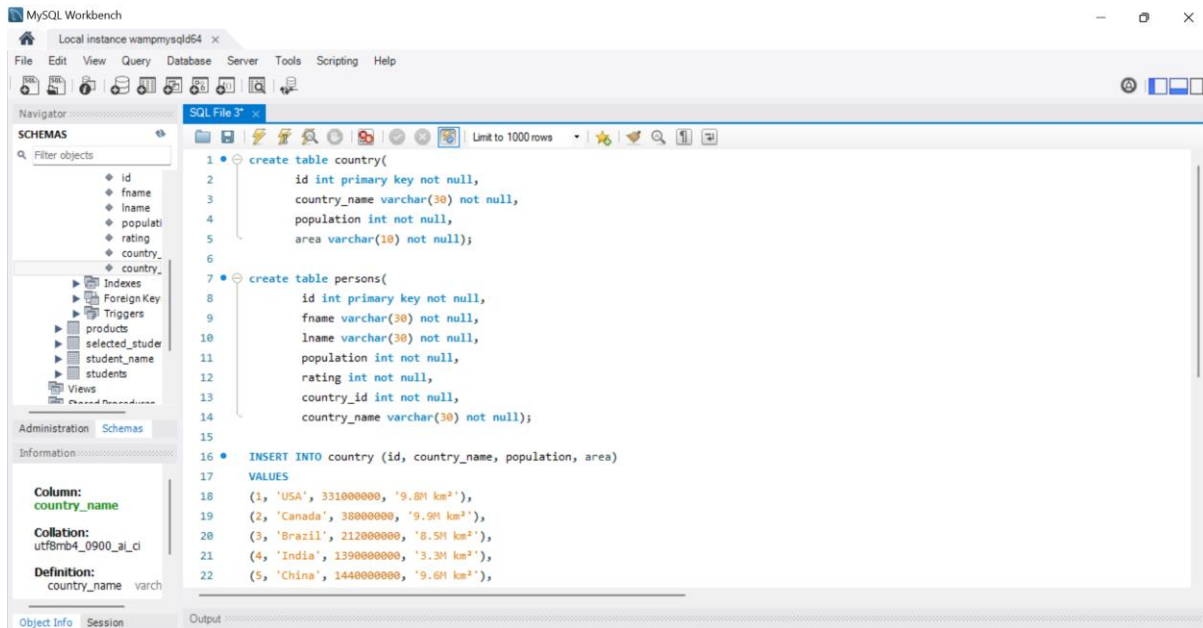


QUERYING DATA OUTPUTS



1. List the distinct country names from the Persons table

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
select distinct(country_name) from persons;
```

The Result Grid displays the following data:

country_name
USA
Canada
Brazil
India
China
Germany
Australia
Russia

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
5	13:37:30	select distinct(country_name) from persons LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
6	13:39:02	select distinct(country_name) from persons LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

2. Select first names and last names from the Persons table with aliases.

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
select concat(fname," ",lname) as fullname from persons;
```

The Result Grid displays the following data:

fullname
John Doe
Jane Smith
Carlos Silva
Amit Sharma
Li Wang
Hans Meier
Emma Brown
Ivan Petrov

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
7	13:40:36	select concat(fname,lname) as fullname from persons LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
8	13:40:47	select concat(fname," ",lname) as fullname from persons LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

3. Find all persons with a rating greater than 4.0.

The screenshot shows MySQL Workbench with a local instance 'wampmysqld64'. The SQL editor contains the following queries:

```
40 (10, 'Yuki', 'Tanaka', 126000000, 5, 10, 'Japan');
41
42 select distinct(country_name) from persons;
43
44 select concat(fname, " ", lname) as fullname from persons;
45
46 select * from persons where rating>4;
```

The 'Result Grid' shows the results of the last query, displaying 4 rows of persons with a rating greater than 4.0:

id	fname	lname	population	rating	country_id	country_name
2	Jane	Smith	38000000	5	2	Canada
4	Amit	Sharma	139000000	5	4	India
7	Emma	Brown	25000000	5	7	Australia
10	Yuki	Tanaka	126000000	5	10	Japan

The 'Object Info' panel shows the column 'rating' is of type 'int'.

4. Find countries with a population greater than 10 lakhs.

The screenshot shows MySQL Workbench with a local instance 'wampmysqld64'. The SQL editor contains the following queries:

```
41
42 select distinct(country_name) from persons;
43
44 select concat(fname, " ", lname) as fullname from persons;
45
46 select * from persons where rating>4;
47
48 select country_name from country where population>1000000;
49
```

The 'Result Grid' shows the results of the last query, displaying 6 rows of countries with a population greater than 10 lakhs:

country_name
USA
Canada
Brazil
India
China
Germany
Australia
Russia
France
Tanaka

The 'Object Info' panel shows the column 'population' is of type 'int'.

5. Find persons who are from 'USA' or have a rating greater than 4.5.

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
43
44 • select concat(fname," ",lname) as fullname from persons;
45
46 • select * from persons where rating>4;
47
48 • select country_name from country where population>1000000;
49
50 • select * from persons where country_name="USA" or rating>4.5;
51
```

The Result Grid shows the following data:

id	fname	lname	population	rating	country_id	country_name
1	John	Doe	331000000	4	1	USA
2	Jane	Smith	380000000	5	2	Canada
4	Amit	Sharma	1390000000	5	4	India
7	Emma	Brown	250000000	5	7	Australia
10	Yuki	Tanaka	1260000000	5	10	Japan

The left sidebar shows the Schemas pane with a tree view of the database structure. The bottom pane shows the Object Info for the 'country_name' column.

6. Find all persons where the country name is NULL.

The screenshot shows the MySQL Workbench interface with a sequence of SQL queries:

```
49 • select country_name from country where population>1000000;
50
51 • select * from persons where country_name="USA" or rating>4.5;
52
53 • update persons set country_name="NULL" where id=7;
54
55 • select * from persons where country_name="NULL";
56
```

The Result Grid shows the following data:

id	fname	lname	population	rating	country_id	country_name
7	Emma	Brown	250000000	5	7	NULL

The bottom pane shows the Action Output with the following messages:

#	Time	Action	Message	Duration / Fetch
13	14:45:21	update persons set country_name="NULL" where id=7	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
14	14:45:43	select * from persons where country_name="NULL" LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

7. Find all persons from the countries 'USA', 'Canada', and 'UK'.

The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following queries:

```
56 • update country set country_name="UK" where id=3;
57
58
59 • select * from persons where country_name="NULL";
60
61 • select * from persons where country_name in("USA","Canada","UK");
62
```

The Result Grid shows the following data:

#	id	fname	lname	population	rating	country_id	country_name
1	John	Doe	331000000	4	1	USA	
2	Jane	Smith	38000000	5	2	Canada	
3	Carlos	Silva	212000000	3	3	UK	

The Output pane shows the following messages:

#	Time	Action	Message	Duration / Fetch
17	14:48:03	update country set country_name="UK" where id=3	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
18	14:48:30	select * from persons where country_name in("USA","Canada","UK") LIMIT 0, 1000	3 row(s) returned	0.015 sec / 0.000 sec

8. Find all persons not from the countries 'India' and 'Australia'.

The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following queries:

```
59
60 • select * from persons where country_name="NULL";
61
62 • select * from persons where country_name in("USA","Canada","UK");
63
64 • select * from persons where country_name not in("India","Australia");
65
```

The Result Grid shows the following data:

#	id	fname	lname	population	rating	country_id	country_name
1	John	Doe	331000000	4	1	USA	
2	Jane	Smith	38000000	5	2	Canada	
3	Carlos	Silva	212000000	3	3	UK	
4	Li	Wang	1440000000	4	5	China	
5	Hans	Meier	83000000	4	6	Germany	
6	Emma	Brown	25000000	5	7	NULL	
7	Ivan	Petrov	145000000	3	8	Russia	
8	Pierre	Dubois	67000000	4	9	France	

The Output pane shows the following messages:

#	Time	Action	Message	Duration / Fetch
23	14:51:18	select * from persons where country_name in("India","Australia") LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
24	14:51:23	select * from persons where country_name not in("India","Australia") LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

9. Find all countries with a population between 5 lakhs and 20 lakhs.

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
65
66 • select * from persons where country_name in("USA","Canada","UK");
67
68 • select * from persons where country_name not in("India","Australia");
69
70 • select country_name from country where population between 500000 and 2000000;
71
```

The Result Grid shows the following data:

country_name
Canada
Russia

The Output pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
28	14:54:10	update country set population="1800000" where id=2	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
29	14:55:06	select country_name from country where population between 500000 and 2000000 LI...	2 row(s) returned	0.015 sec / 0.000 sec

10. Find all countries whose names do not start with 'C'.

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
66 • select * from persons where country_name in("USA","Canada","UK");
67
68 • select * from persons where country_name not in("India","Australia");
69
70 • select country_name from country where population between 500000 and 2000000;
71
72 • select country_name from country where country_name not like "C%";
73
```

The Result Grid shows the following data:

country_name
USA
UK
India
Germany
NULL
Russia
France
Australia

The Output pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
30	14:56:26	select country_name from country where country_name not like "C%" LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
31	14:56:48	select country_name from country where country_name not like "C%" LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec