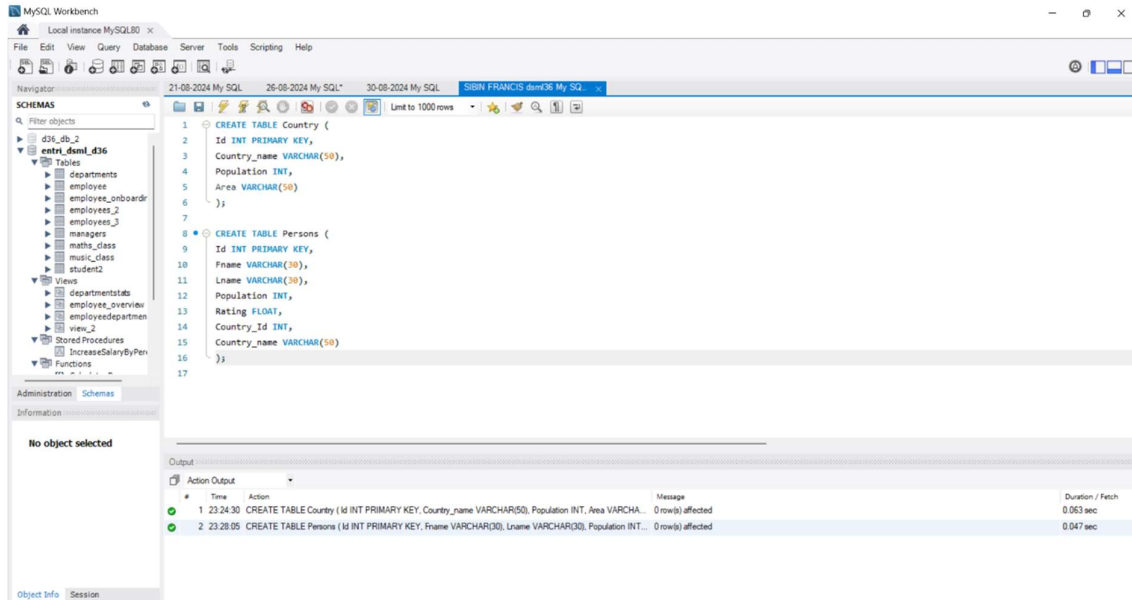
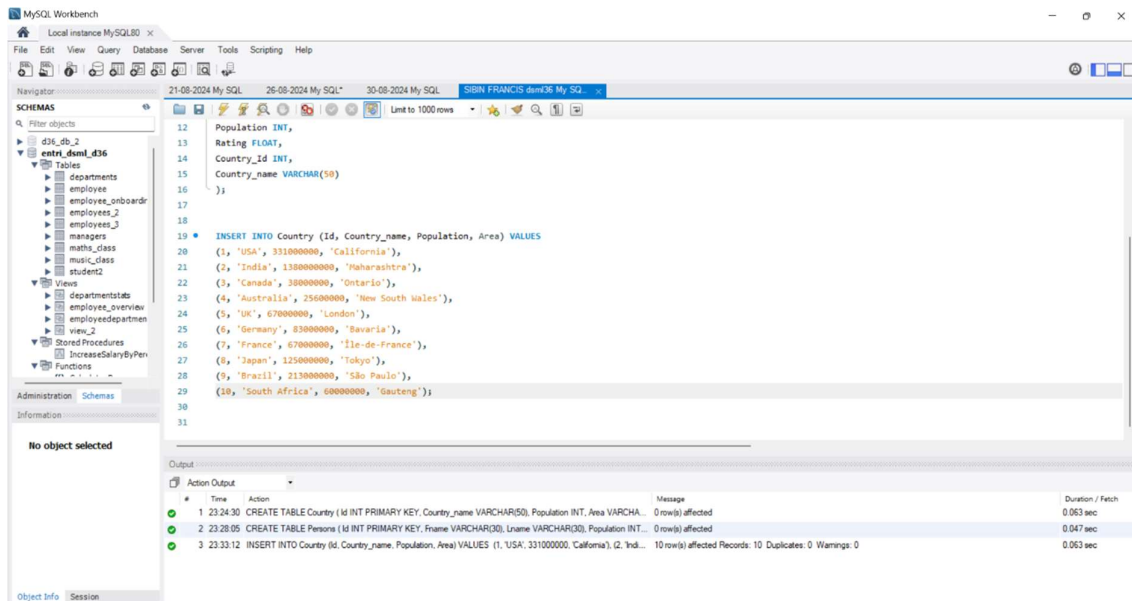


# QUERYING DATA

## ➤ CREATED TABLE **COUNTRY** AND **PERSONS**



## ➤ INSERTED VALUES FOR BOTH THE TABLES



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

Filter objects

SCHMAS

d36\_db\_2

entri\_dsm1\_d36

Tables

departments

employee

employee\_onboard

employees\_2

employees\_3

managers

maths\_class

music\_class

student2

Views

departmentstats

employee\_overview

employeesdepartmen

view\_2

Stored Procedures

IncreaseSalaryByTen

Functions

Administration Schemas

Information

No object selected

Object Info Session

21-08-2024 My SQL 26-08-2024 My SQL 30-08-2024 My SQL

Limit to 1000 rows

26 (7, 'France', 67000000, 'Île-de-France'),

27 (8, 'Japan', 125000000, 'Tokyo'),

28 (9, 'Brazil', 213000000, 'São Paulo'),

29 (10, 'South Africa', 60000000, 'Gauteng'));

30

31 INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country\_Id, Country\_name)

32 VALUES

33 (1, 'John', 'Doe', 1000000, 4.5, 1, 'USA'),

34 (2, 'Jane', 'Smith', 2000000, 4.8, 2, 'India'),

35 (3, 'Michael', 'Brown', 1500000, 4.2, 3, 'Canada'),

36 (4, 'Emily', 'Davis', 2500000, 3.9, 4, 'Australia'),

37 (5, 'James', 'Wilson', 1800000, 4.6, 5, 'UK'),

38 (6, 'Anna', 'Moore', 1300000, 4.6, 6, 'Germany'),

39 (7, 'Robert', 'Taylor', 1700000, 3.7, 7, 'France'),

40 (8, 'Linda', 'Anderson', 1400000, 4.9, 8, 'Japan'),

41 (9, 'David', 'Thomas', 2100000, 3.6, 9, 'Brazil'),

42 (10, 'Sarah', 'Jackson', 1600000, 4.3, 10, 'South Africa');

43

44

45

Output

Action Output

# Time Action Message Duration / Fetch

1 23:24:30 CREATE TABLE Country (Id INT PRIMARY KEY, Country\_name VARCHAR(50), Population INT, Area VARCHAR(50)) 0 row(s) affected 0.063 sec

2 23:28:05 CREATE TABLE Persons (Id INT PRIMARY KEY, Fname VARCHAR(30), Lname VARCHAR(30), Population INT, Rating DEC(3,1)) 0 row(s) affected 0.047 sec

3 23:32:12 INSERT INTO Country (Id, Country\_name, Population, Area) VALUES (1, 'USA', 331000000, 'California'), (2, 'India', 1380000000, 'Maharashtra'), (3, 'Canada', 38000000, 'Ontario'), (4, 'Australia', 25600000, 'New South Wales'), (5, 'UK', 67000000, 'London'), (6, 'Germany', 83000000, 'Bavaria'), (7, 'France', 67000000, 'Île-de-France'), (8, 'Japan', 125000000, 'Tokyo'), (9, 'Brazil', 213000000, 'São Paulo'), (10, 'South Africa', 60000000, 'Gauteng') 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0 0.063 sec

4 23:34:11 INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country\_Id, Country\_name) VALUES (1, 'John', 'Doe', 1000000, 4.5, 1, 'USA'), (2, 'Jane', 'Smith', 2000000, 4.8, 2, 'India'), (3, 'Michael', 'Brown', 1500000, 4.2, 3, 'Canada'), (4, 'Emily', 'Davis', 2500000, 3.9, 4, 'Australia'), (5, 'James', 'Wilson', 1800000, 4.6, 5, 'UK'), (6, 'Anna', 'Moore', 1300000, 4.6, 6, 'Germany'), (7, 'Robert', 'Taylor', 1700000, 3.7, 7, 'France'), (8, 'Linda', 'Anderson', 1400000, 4.9, 8, 'Japan'), (9, 'David', 'Thomas', 2100000, 3.6, 9, 'Brazil'), (10, 'Sarah', 'Jackson', 1600000, 4.3, 10, 'South Africa') 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0 0.000 sec

## ➤ DISPLAYING BOTH THE TABLES

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

Filter objects

SCHMAS

d36\_db\_2

entri\_dsm1\_d36

Tables

departments

employee

employee\_onboard

employees\_2

employees\_3

managers

maths\_class

music\_class

student2

Views

departmentstats

employee\_overview

employeesdepartmen

view\_2

Stored Procedures

IncreaseSalaryByTen

Functions

Administration Schemas

Information

No object selected

Object Info Session

21-08-2024 My SQL 26-08-2024 My SQL 30-08-2024 My SQL

Limit to 1000 rows

30

31 INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country\_Id, Country\_name)

32 VALUES

33 (1, 'John', 'Doe', 1000000, 4.5, 1, 'USA'),

34 (2, 'Jane', 'Smith', 2000000, 4.8, 2, 'India'),

35 (3, 'Michael', 'Brown', 1500000, 4.2, 3, 'Canada'),

36 (4, 'Emily', 'Davis', 2500000, 3.9, 4, 'Australia'),

37 (5, 'James', 'Wilson', 1800000, 4.6, 5, 'UK'),

38 (6, 'Anna', 'Moore', 1300000, 4.6, 6, 'Germany'),

39 (7, 'Robert', 'Taylor', 1700000, 3.7, 7, 'France'),

40 (8, 'Linda', 'Anderson', 1400000, 4.9, 8, 'Japan'),

41 (9, 'David', 'Thomas', 2100000, 3.6, 9, 'Brazil'),

42 (10, 'Sarah', 'Jackson', 1600000, 4.3, 10, 'South Africa');

43

44 SELECT \* FROM Country;

45 SELECT \* FROM Persons;

Result Grid

Filter Rows

Edit Import/Export Wrap Cell Contents

	Id	Country_name	Population	Area
1	USA	331000000	California	
2	India	1380000000	Maharashtra	
3	Canada	38000000	Ontario	
4	Australia	25600000	New South Wales	
5	UK	67000000	London	
6	Germany	83000000	Bavaria	
7	France	67000000	Île-de-France	
8	Japan	125000000	Tokyo	
9	Brazil	213000000	São Paulo	
10	South Africa	60000000	Gauteng	

Country 1 x

Apply Revert

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

21-08-2024 My SQL 26-08-2024 My SQL\* 30-08-2024 My SQL SIBIN FRANCIS dmsl36 My SQL

Limit to 1000 rows

31 INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country\_Id, Country\_name)

32 VALUES

33 (1, 'John', 'Doe', 1000000, 4.5, 1, 'USA'),

34 (2, 'Jane', 'Smith', 2000000, 4.8, 2, 'India'),

35 (3, 'Michael', 'Brown', 1500000, 4.2, 3, 'Canada'),

36 (4, 'Emily', 'Davis', 2500000, 3.9, 4, 'Australia'),

37 (5, 'James', 'Wilson', 1800000, 4.6, 5, 'UK'),

38 (6, 'Anna', 'Moore', 1300000, 4.6, 6, 'Germany'),

39 (7, 'Robert', 'Taylor', 1700000, 3.7, 7, 'France'),

40 (8, 'Linda', 'Anderson', 1400000, 4.9, 8, 'Japan'),

41 (9, 'David', 'Thomas', 2100000, 3.8, 9, 'Brazil'),

42 (10, 'Sarah', 'Jackson', 1600000, 4.3, 10, 'South Africa');

43

44 SELECT \* FROM Country;

45 SELECT \* FROM Persons;

46

Result Grid

	Id	Fname	Lname	Population	Rating	Country_Id	Country_name
1	1	John	Doe	1000000	4.5	1	USA
2	2	Jane	Smith	2000000	4.8	2	India
3	3	Michael	Brown	1500000	4.2	3	Canada
4	4	Emily	Davis	2500000	3.9	4	Australia
5	5	James	Wilson	1800000	4.6	5	UK
6	6	Anna	Moore	1300000	4.6	6	Germany
7	7	Robert	Taylor	1700000	3.7	7	France
8	8	Linda	Anderson	1400000	4.9	8	Japan
9	9	David	Thomas	2100000	3.8	9	Brazil
10	10	Sarah	Jackson	1600000	4.3	10	South Africa

Object Info Session Persons 2 x Apply Revert

## ➤ LISTING DISTINCT COUNTRY NAMES FROM PERSONS TABLE

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

21-08-2024 My SQL 26-08-2024 My SQL\* 30-08-2024 My SQL SIBIN FRANCIS dmsl36 My SQL

Limit to 1000 rows

35 (3, 'Michael', 'Brown', 1500000, 4.2, 3, 'Canada'),

36 (4, 'Emily', 'Davis', 2500000, 3.9, 4, 'Australia'),

37 (5, 'James', 'Wilson', 1800000, 4.6, 5, 'UK'),

38 (6, 'Anna', 'Moore', 1300000, 4.6, 6, 'Germany'),

39 (7, 'Robert', 'Taylor', 1700000, 3.7, 7, 'France'),

40 (8, 'Linda', 'Anderson', 1400000, 4.9, 8, 'Japan'),

41 (9, 'David', 'Thomas', 2100000, 3.8, 9, 'Brazil'),

42 (10, 'Sarah', 'Jackson', 1600000, 4.3, 10, 'South Africa');

43

44 SELECT \* FROM Country;

45 SELECT \* FROM Persons;

46

47

48 # list the distinct country names from the Persons table

49

50 SELECT DISTINCT Country\_name FROM Persons;

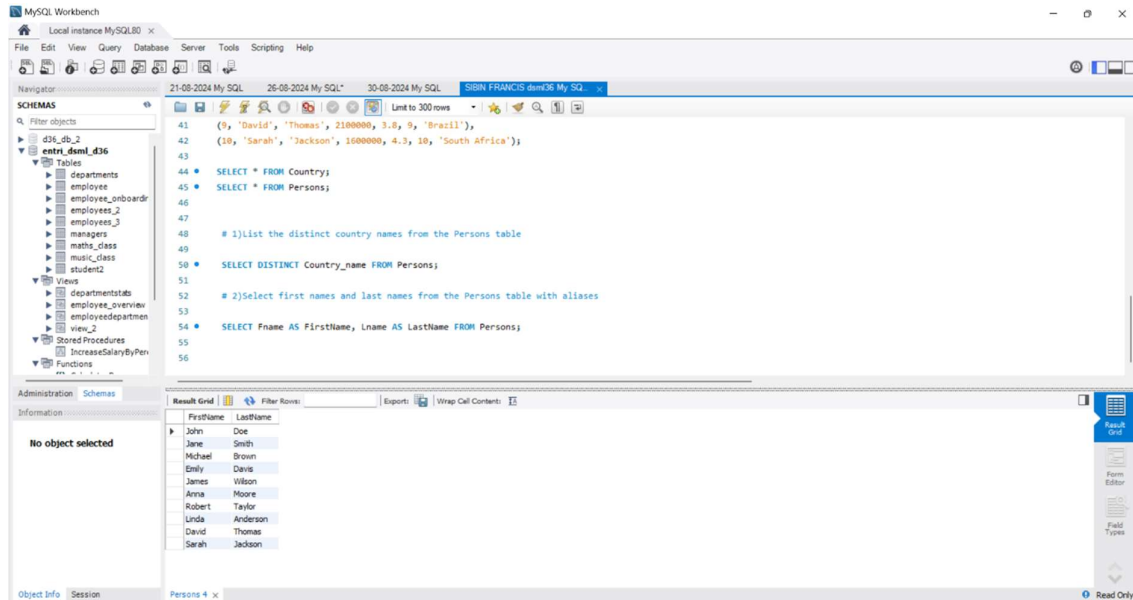
51

Result Grid

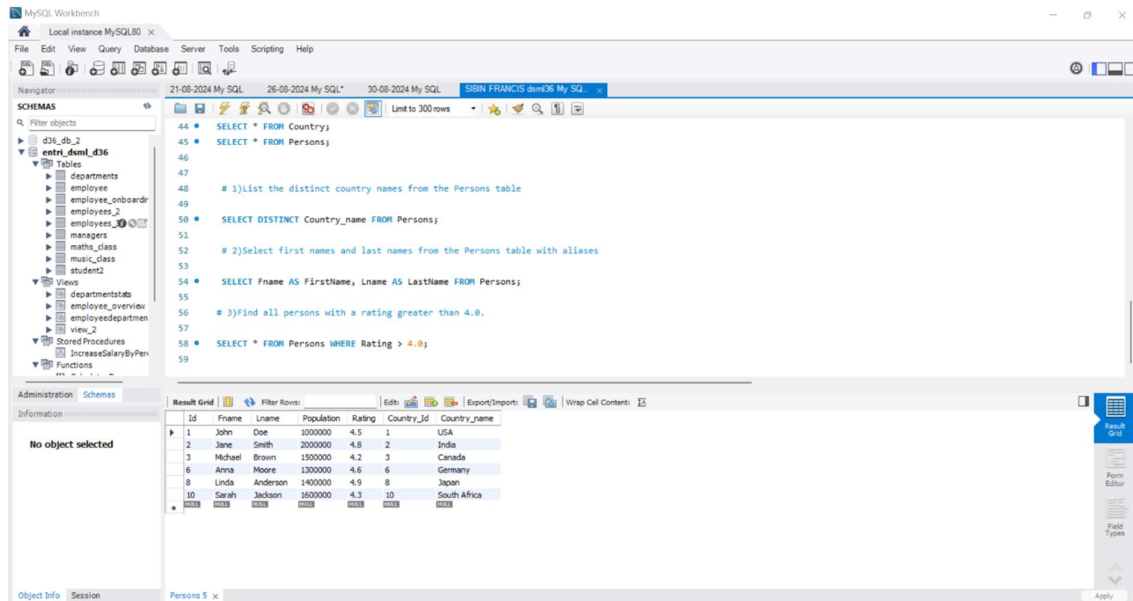
	Country_name
1	USA
2	India
3	Canada
4	Australia
5	UK
6	Germany
7	France
8	Japan
9	Brazil
10	South Africa

Object Info Session Persons 3 x Read Only

➤ **SELECT FNAME AS FIRSTNAME, LNAME AS  
LASTNAME FROM PERSONS**



➤ **SELECT ALL FROM PERSONS WHERE RATING > 4.0**



## ➤ DISPLAYING COUNTRY WHERE POPULATION IS GREATER THAN 1000000

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

```
47 # 1)List the distinct country names from the Persons table
48
49 • SELECT DISTINCT Country_name FROM Persons;
50
51 # 2)Select first names and last names from the Persons table with aliases
52
53 • SELECT Fname AS FirstName, Lname AS LastName FROM Persons;
54
55 # 3)Find all persons with a rating greater than 4.0.
56
57 • SELECT * FROM Persons WHERE Rating > 4.0;
58
59 # 4)Find countries with a population greater than 10 lakhs.
60
61 • SELECT * FROM Country WHERE Population > 1000000 ;
62
```

The Result Grid shows the following data:

Id	Country_name	Population	Area
1	USA	331000000	California
2	India	1380000000	Maharashtra
3	Canada	38000000	Ontario
4	Australia	25600000	New South Wales
5	UK	67000000	London
6	Germany	83000000	Bavaria
7	France	67000000	Île-de-France
8	Japan	125000000	Tokyo
9	Brazil	213000000	São Paulo
10	South Africa	60000000	Gauteng

## ➤ PERSONS WHO ARE FROM 'USA' OR HAVE A RATING GREATER THAN 4.5.

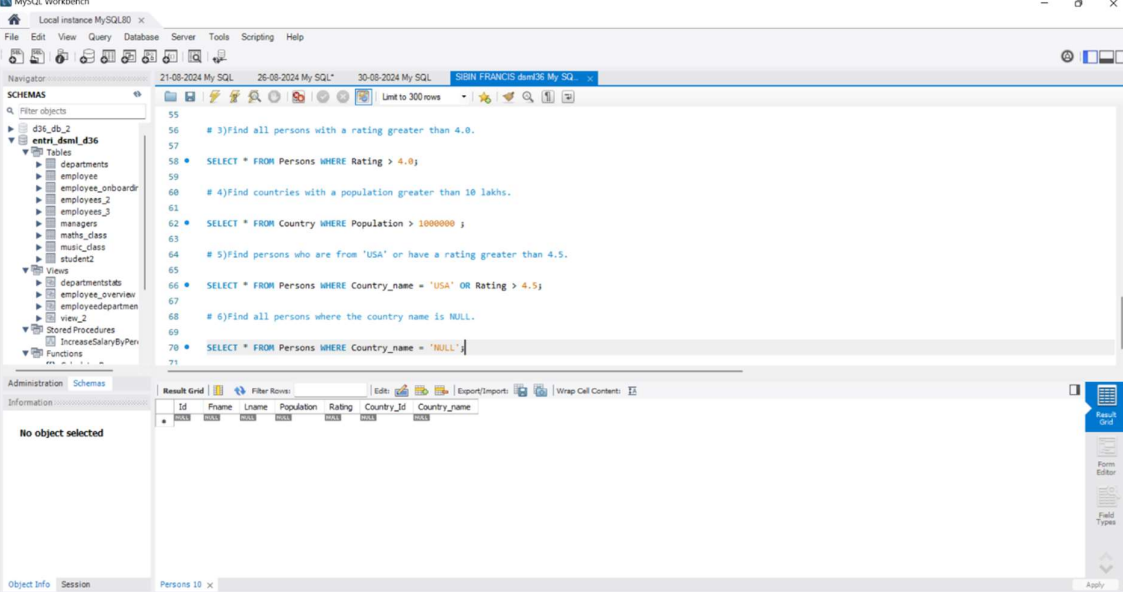
The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
51
52 # 2)Select first names and last names from the Persons table with aliases
53
54 • SELECT Fname AS FirstName, Lname AS LastName FROM Persons;
55
56 # 3)Find all persons with a rating greater than 4.0.
57
58 • SELECT * FROM Persons WHERE Rating > 4.0;
59
60 # 4)Find countries with a population greater than 10 lakhs.
61
62 • SELECT * FROM Country WHERE Population > 1000000 ;
63
64 # 5)Find persons who are from 'USA' or have a rating greater than 4.5.
65
66 • SELECT * FROM Persons WHERE Country_name = 'USA' OR Rating > 4.5;
67
```

The Result Grid shows the following data:

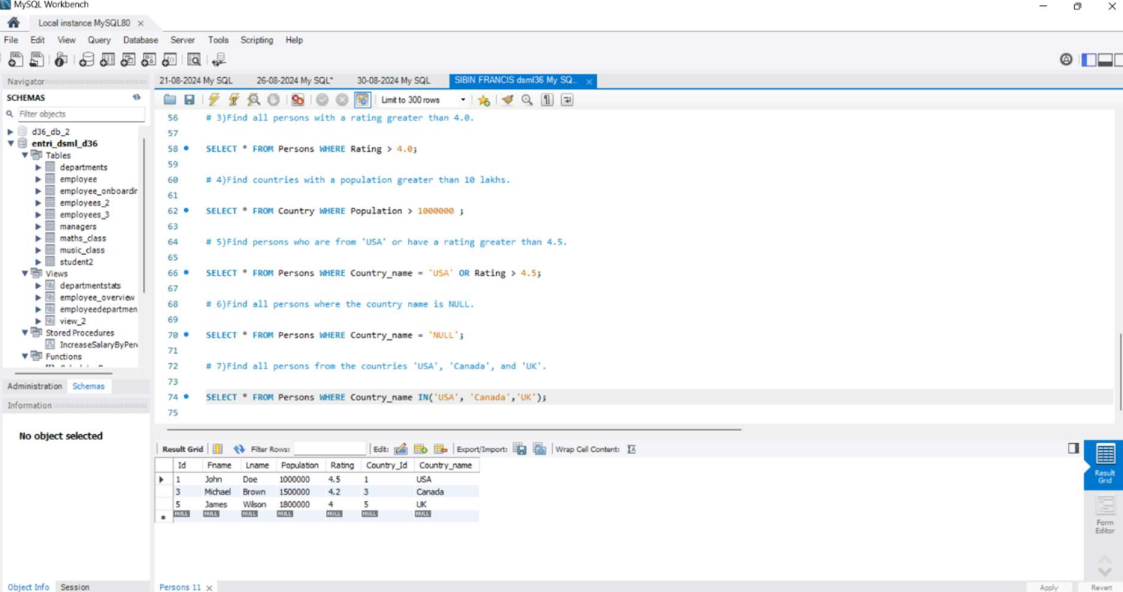
Id	Fname	Lname	Population	Rating	Country_Id	Country_name
1	John	Doe	1000000	4.5	1	USA
2	Jane	Smith	2000000	4.8	2	India
6	Anna	Moore	1300000	4.6	6	Germany
8	Linda	Anderson	1400000	4.9	8	Japan

## ➤ PERSONS WHERE THE COUNTRY NAME IS NULL



The screenshot shows the MySQL Workbench interface. The left sidebar displays the database schema for 'd36\_db\_2', including tables like 'departments', 'employee', and 'employees\_2'. The main editor window contains a SQL query: `SELECT * FROM Persons WHERE Country_name = 'NULL';`. The bottom status bar indicates 'Persons 10 x'.

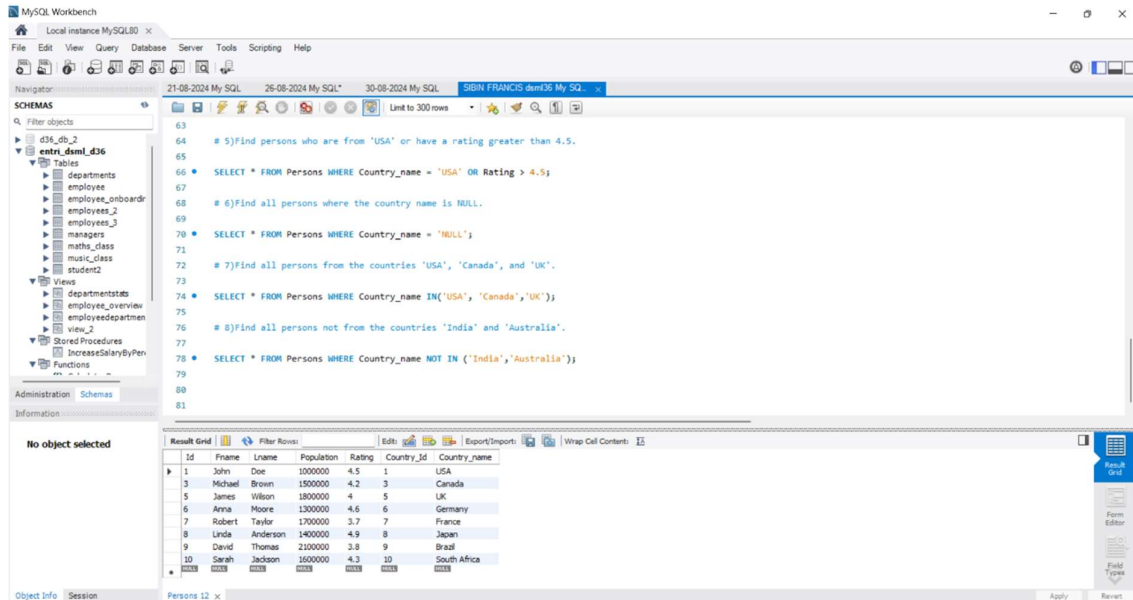
## ➤ ALL PERSONS FROM THE COUNTRIES 'USA', 'CANADA', AND 'UK'.



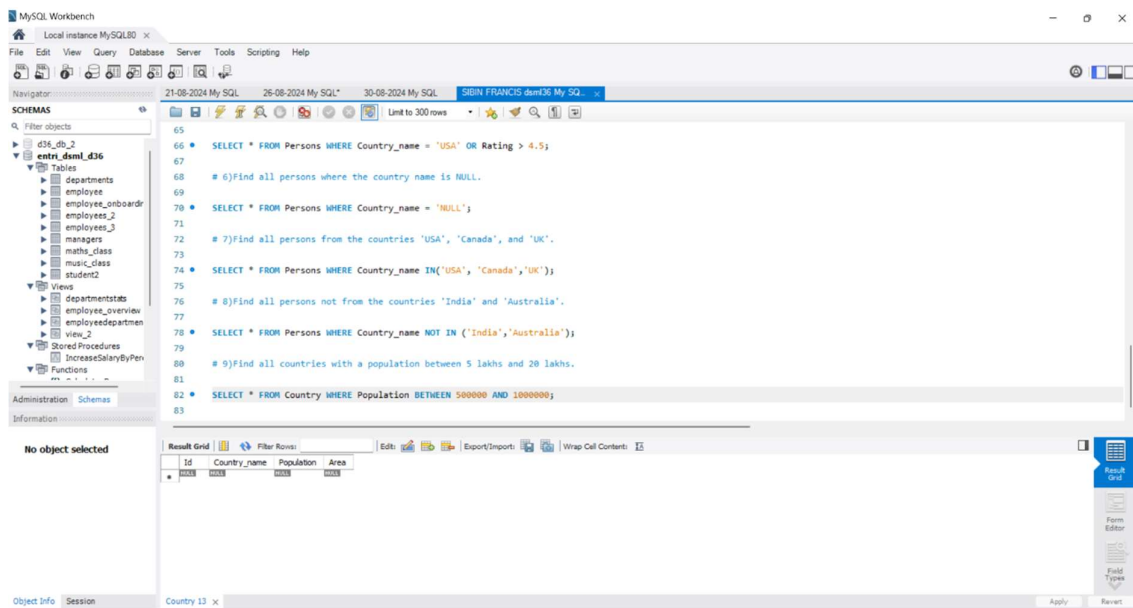
The screenshot shows the MySQL Workbench interface. The left sidebar displays the database schema for 'd36\_db\_2'. The main editor window contains a SQL query: `SELECT * FROM Persons WHERE Country_name IN('USA', 'Canada', 'UK');`. The bottom status bar indicates 'Persons 11 x'.

Id	Fname	Lname	Population	Rating	Country_id	Country_name
1	John	Doe	1000000	4.5	1	USA
3	Michael	Brown	1500000	4.2	3	Canada
5	James	Wilson	1800000	4	5	UK

➤ **ALL PERSONS NOT FROM THE COUNTRIES 'INDIA' AND 'AUSTRALIA'.**

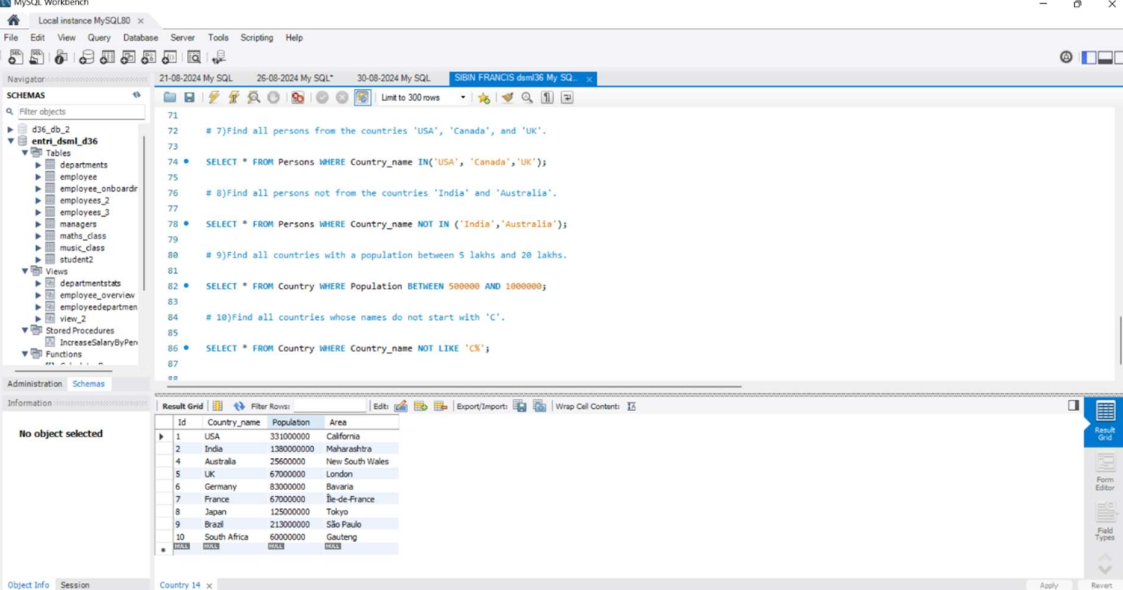


➤ **ALL COUNTRIES WITH A POPULATION BETWEEN 5 LAKHS AND 20 LAKHS.**





## ➤ ALL COUNTRIES WHOSE NAMES DO NOT START WITH 'C'.



The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with a search filter. The main editor window contains several SQL queries. The bottom panel shows the 'Result Grid' with a table of country data.

**SQL Queries:**

```
71
72 # 7)Find all persons from the countries 'USA', 'Canada', and 'UK'.
73
74 • SELECT * FROM Persons WHERE Country_name IN('USA', 'Canada','UK');
75
76 # 8)Find all persons not from the countries 'India' and 'Australia'.
77
78 • SELECT * FROM Persons WHERE Country_name NOT IN ('India','Australia');
79
80 # 9)Find all countries with a population between 5 lakhs and 20 lakhs.
81
82 • SELECT * FROM Country WHERE Population BETWEEN 500000 AND 1000000;
83
84 # 10)Find all countries whose names do not start with 'C'.
85
86 • SELECT * FROM Country WHERE Country_name NOT LIKE 'C%';
87
88
```

**Result Grid:**

ID	Country_name	Population	Area
1	USA	331000000	California
2	India	1380000000	Maharashtra
4	Australia	25600000	New South Wales
5	UK	67000000	London
6	Germany	83000000	Bavaria
7	France	67000000	Île-de-France
8	Japan	125000000	Tokyo
9	Brazil	213000000	São Paulo
10	South Africa	60000000	Gauteng