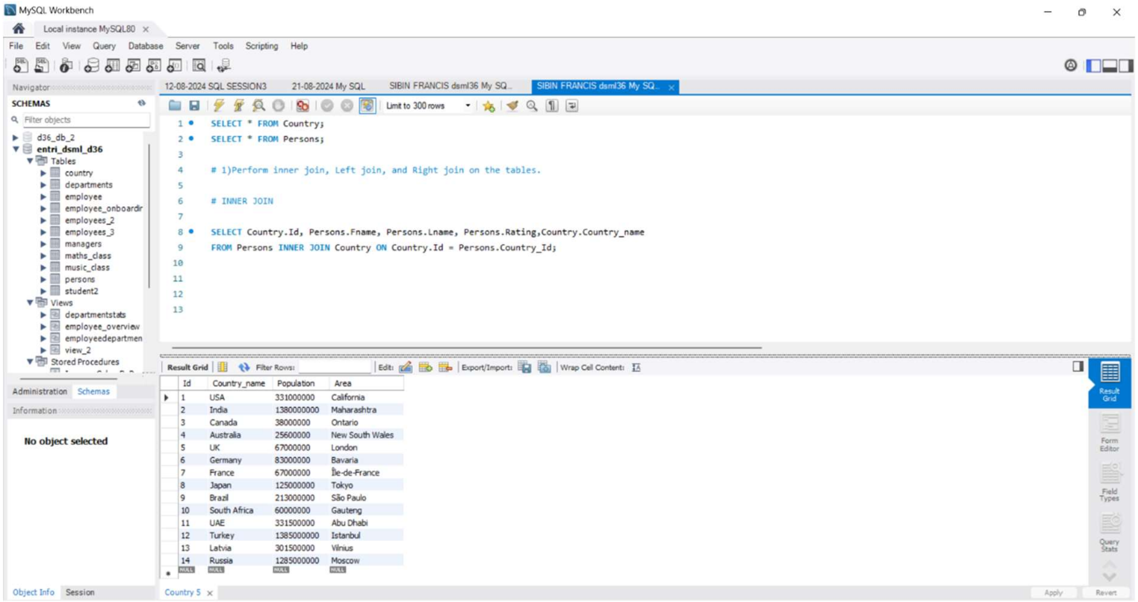
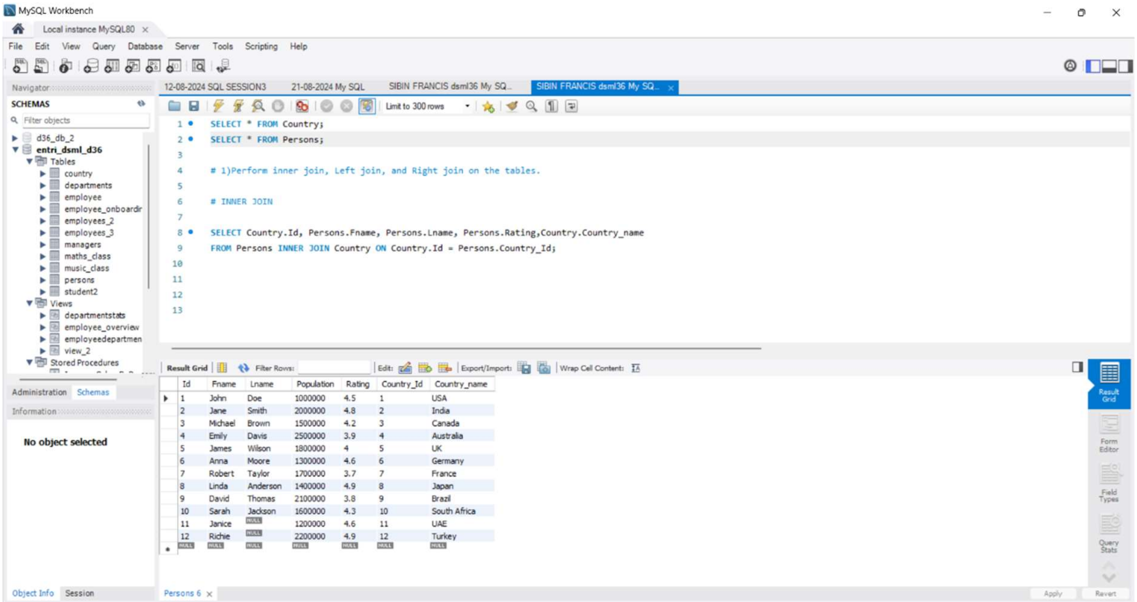
JOINS AND UNIOS

➢ DISPLAYING TABLES COUNTRY AND PERSONS



```sql
SELECT * FROM Country;
SELECT * FROM Persons;

# 1)Perform inner join, Left join, and Right join on the tables.

# INNER JOIN

SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating,Country.Country_name
FROM Persons INNER JOIN Country ON Country.Id = Persons.Country_Id;
```

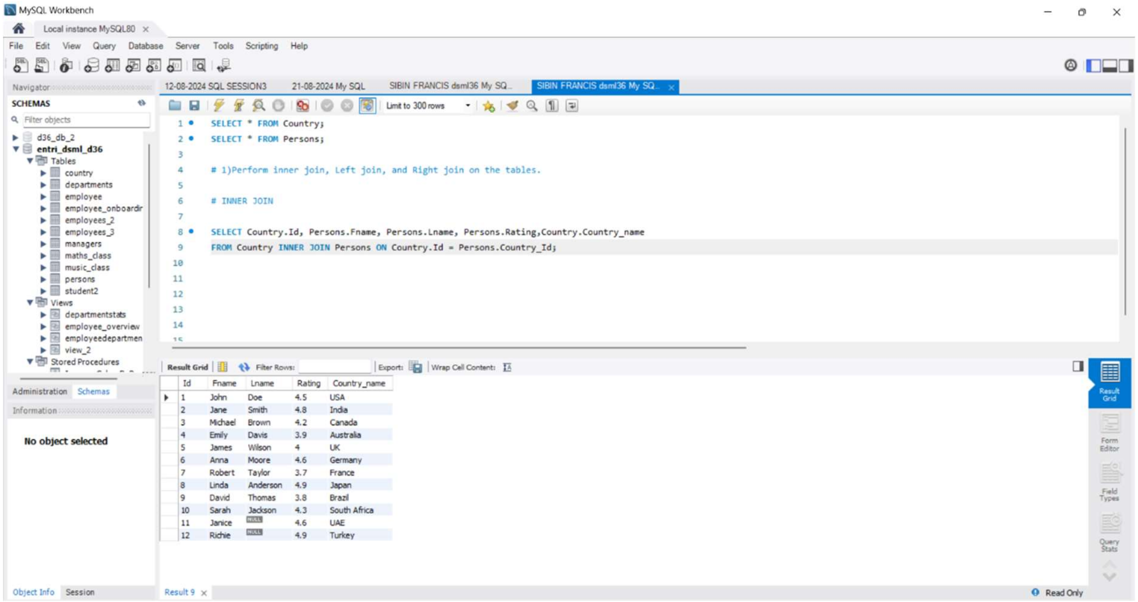
Id	Country_name	Population	Area
1	USA	331000000	California
2	India	1380000000	Maharashtra
3	Canada	38000000	Ontario
4	Australia	25600000	New South Wales
5	UK	67000000	London
6	Germany	83000000	Bavaria
7	France	67000000	Île-de-France
8	Japan	125000000	Tokyo
9	Brazil	213000000	São Paulo
10	South Africa	60000000	Gauteng
11	UAE	331500000	Abu Dhabi
12	Turkey	1385000000	Istanbul
13	Latvia	301500000	Vilnius
14	Russia	1285000000	Moscow
NULL	NULL	NULL	NULL



```sql
SELECT * FROM Country;
SELECT * FROM Persons;

# 1)Perform inner join, Left join, and Right join on the tables.

# INNER JOIN

SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating,Country.Country_name
FROM Persons INNER JOIN Country ON Country.Id = Persons.Country_Id;
```

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
3	Michael	Brown	1500000	4.2	3	Canada
4	Emily	Davis	2500000	3.9	4	Australia
5	James	Wilson	1800000	4	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	3.8	9	Brazil
10	Sarah	Jackson	1600000	4.3	10	South Africa
11	Janice	NULL	1200000	4.6	11	UAE
12	Richie	NULL	2200000	4.9	12	Turkey
NULL	NULL	NULL	NULL	NULL	NULL	NULL

➢ INNER JOIN

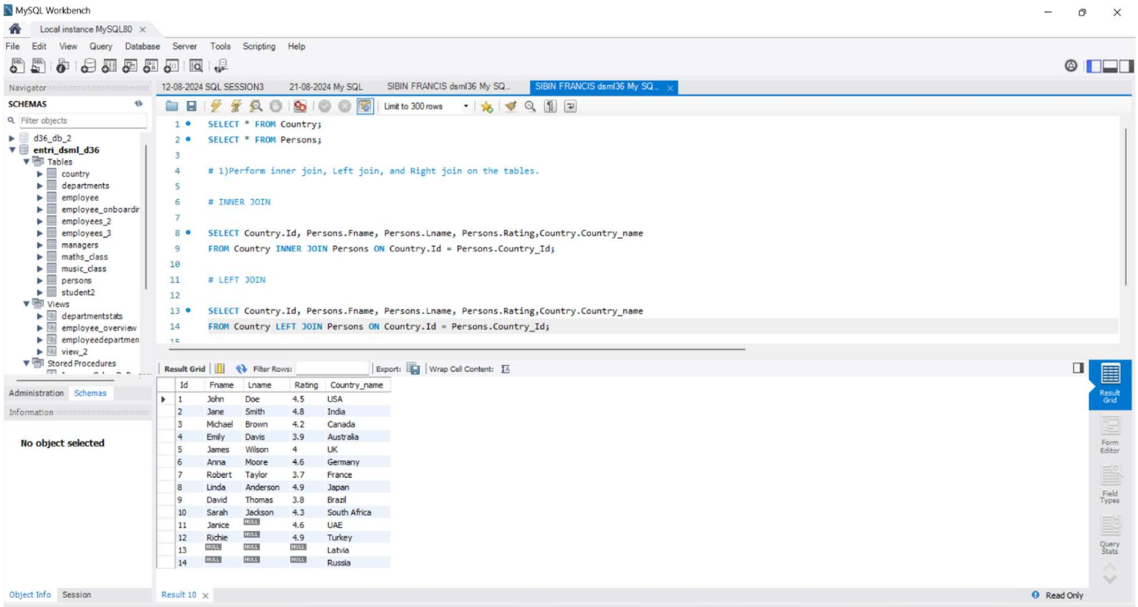


```
SELECT * FROM Country;
SELECT * FROM Persons;

# 1)Perform inner join, Left join, and Right join on the tables.

# INNER JOIN

SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating,Country.Country_name
FROM Country INNER JOIN Persons ON Country.Id = Persons.Country_Id;
```

Id	Fname	Lname	Rating	Country_name
1	John	Doe	4.5	USA
2	Jane	Smith	4.8	India
3	Michael	Brown	4.2	Canada
4	Emily	Davis	3.9	Australia
5	James	Wilson	4	UK
6	Anna	Moore	4.6	Germany
7	Robert	Taylor	3.7	France
8	Linda	Anderson	4.9	Japan
9	David	Thomas	3.8	Brazil
10	Sarah	Jackson	4.3	South Africa
11	Janice	NULL	4.6	UAE
12	Richie	NULL	4.9	Turkey

Result 9

➢ LEFT JOIN

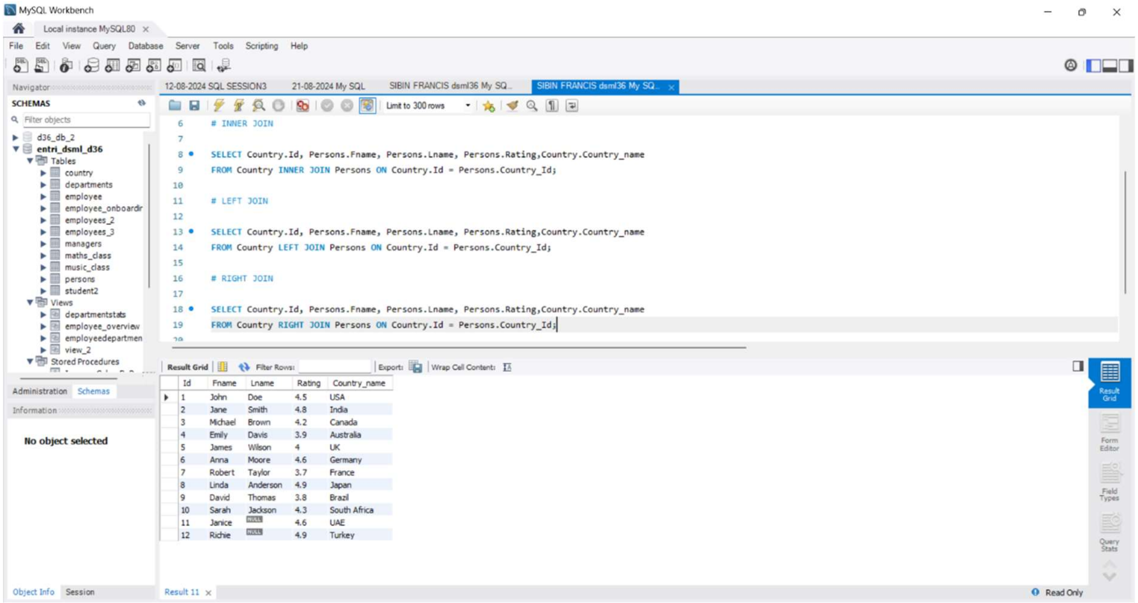


```
SELECT * FROM Country;
SELECT * FROM Persons;

# 1)Perform inner join, Left join, and Right join on the tables.

# INNER JOIN

SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating,Country.Country_name
FROM Country INNER JOIN Persons ON Country.Id = Persons.Country_Id;

# LEFT JOIN

SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating,Country.Country_name
FROM Country LEFT JOIN Persons ON Country.Id = Persons.Country_Id;
```

Id	Fname	Lname	Rating	Country_name
1	John	Doe	4.5	USA
2	Jane	Smith	4.8	India
3	Michael	Brown	4.2	Canada
4	Emily	Davis	3.9	Australia
5	James	Wilson	4	UK
6	Anna	Moore	4.6	Germany
7	Robert	Taylor	3.7	France
8	Linda	Anderson	4.9	Japan
9	David	Thomas	3.8	Brazil
10	Sarah	Jackson	4.3	South Africa
11	Janice	NULL	4.6	UAE
12	Richie	NULL	4.9	Turkey
13	NULL	NULL	NULL	Latvia
14	NULL	NULL	NULL	Russia

Result 10

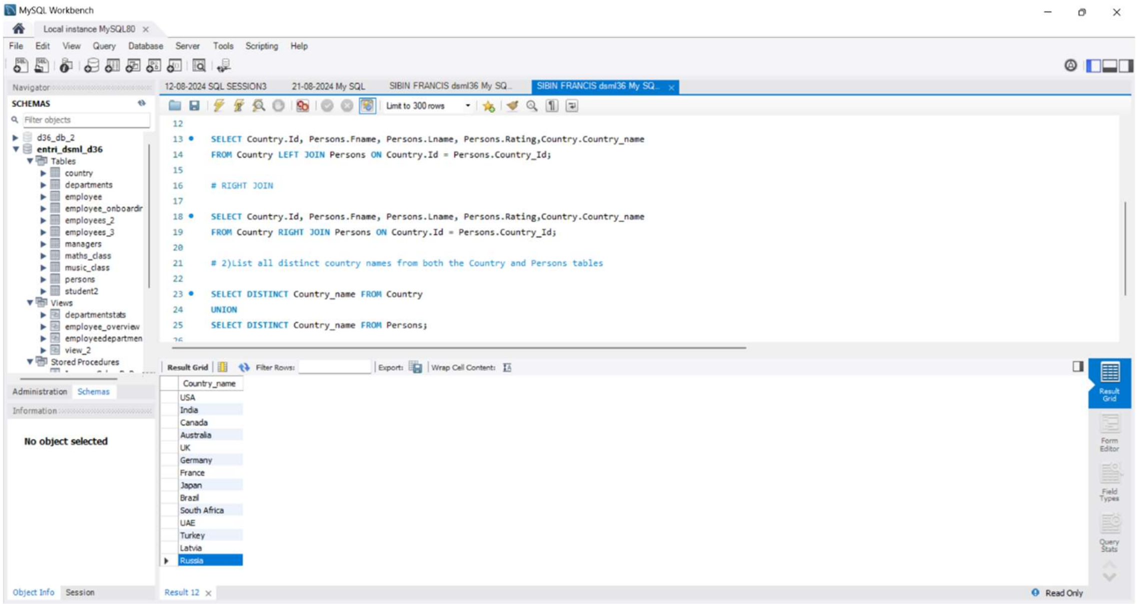
- **RIGHT JOIN**



```sql
# INNER JOIN

SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating,Country.Country_name
FROM Country INNER JOIN Persons ON Country.Id = Persons.Country_Id;

# LEFT JOIN

SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating,Country.Country_name
FROM Country LEFT JOIN Persons ON Country.Id = Persons.Country_Id;

# RIGHT JOIN

SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating,Country.Country_name
FROM Country RIGHT JOIN Persons ON Country.Id = Persons.Country_Id;
```

Id	Fname	Lname	Rating	Country_name
1	John	Doe	4.5	USA
2	Jane	Smith	4.8	India
3	Michael	Brown	4.2	Canada
4	Emily	Davis	3.9	Australia
5	James	Wilson	4	UK
6	Anna	Moore	4.6	Germany
7	Robert	Taylor	3.7	France
8	Linda	Anderson	4.9	Japan
9	David	Thomas	3.8	Brazil
10	Sarah	Jackson	4.3	South Africa
11	Janice	NULL	4.6	UAE
12	Richie	NULL	4.9	Turkey

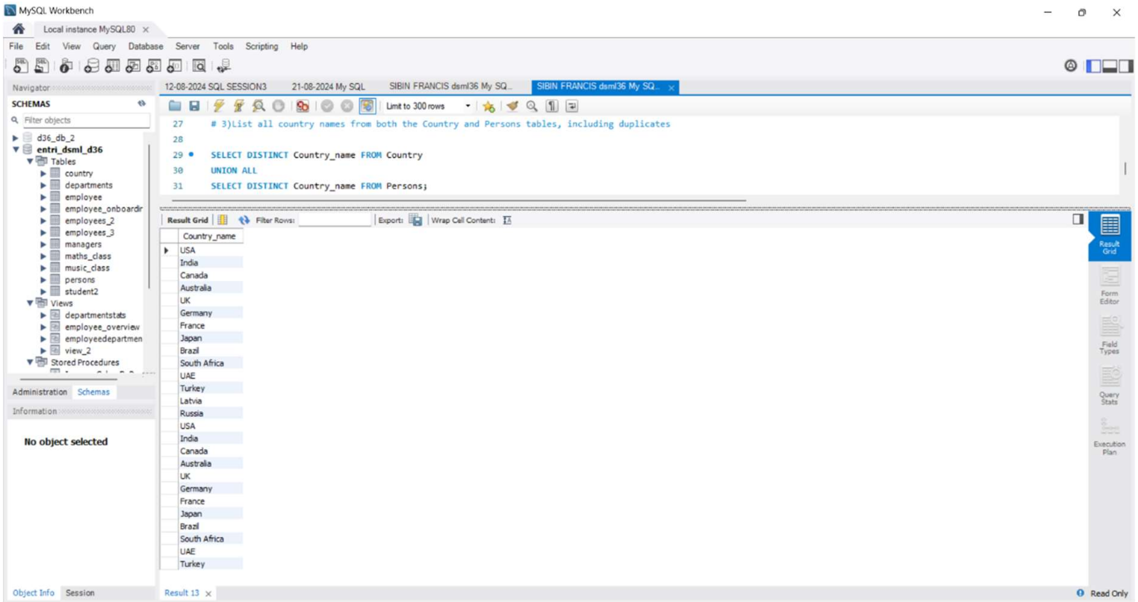
- **ALL DISTINCT COUNTRY NAMES FROM BOTH THE COUNTRY AND PERSONS TABLES**



```sql

SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating,Country.Country_name
FROM Country LEFT JOIN Persons ON Country.Id = Persons.Country_Id;

# RIGHT JOIN

SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating,Country.Country_name
FROM Country RIGHT JOIN Persons ON Country.Id = Persons.Country_Id;

# 2)List all distinct country names from both the Country and Persons tables

SELECT DISTINCT Country_name FROM Country
UNION
SELECT DISTINCT Country_name FROM Persons;
```

Country_name
USA
India
Canada
Australia
UK
Germany
France
Japan
Brazil
South Africa
UAE
Turkey
Latvia
Russia

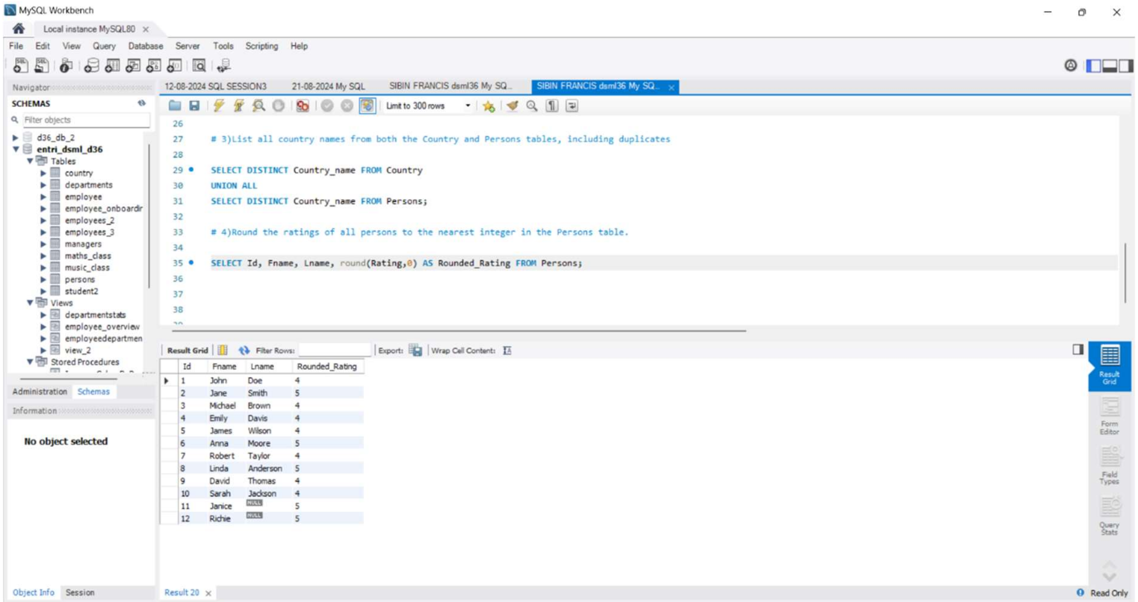
- **ALL COUNTRY NAMES FROM BOTH THE COUNTRY AND PERSONS TABLES, INCLUDING DUPLICATES**



```
# 3)List all country names from both the Country and Persons tables, including duplicates

SELECT DISTINCT Country_name FROM Country
UNION ALL
SELECT DISTINCT Country_name FROM Persons;
```

Country_name
USA
India
Canada
Australia
UK
Germany
France
Japan
Brazil
South Africa
UAE
Turkey
Latvia
Russia
USA
India
Canada
Australia
UK
Germany
France
Japan
Brazil
South Africa
UAE
Turkey

- **ROUNDED THE RATINGS OF ALL PERSONS TO THE NEAREST INTEGER IN THE PERSONS TABLE.**



```
# 3)List all country names from both the Country and Persons tables, including duplicates

SELECT DISTINCT Country_name FROM Country
UNION ALL
SELECT DISTINCT Country_name FROM Persons;

# 4)Round the ratings of all persons to the nearest integer in the Persons table.

SELECT Id, Fname, Lname, round(Rating,0) AS Rounded_Rating FROM Persons;
```

Id	Fname	Lname	Rounded_Rating
1	John	Doe	4
2	Jane	Smith	5
3	Michael	Brown	4
4	Emily	Davis	4
5	James	Wilson	4
6	Anna	Moore	5
7	Robert	Taylor	4
8	Linda	Anderson	5
9	David	Thomas	4
10	Sarah	Jackson	4
11	Janice	NULL	5
12	Richie	NULL	5