

TASK-5

Consider the Country table and Persons table that you created earlier and perform the following:

```
1 • CREATE DATABASE indexxx;
2 • USE indexxx;
3 • CREATE TABLE country (
4     Id INT PRIMARY KEY,
5     Country_name VARCHAR (50) NOT NULL,
6     Population BIGINT NOT NULL,
7     Area BIGINT NOT NULL );
8
9 • INSERT INTO country VALUES
10 (1,"INDIA",1428627663,2973190),
11 (2,"CHINA",1425671352,9388211),
12 (3,"UNITED STATES",339996563,9147420),
13 (4,"INDONESIA",277534122,1811570),
14 (5,"PAKISTAN",240485658,770880),
15 (6,"NIGERIA",223804632,910770),
16 (7,"BRAZIL",216422446,8358140),
17 (8,"BANGLADESH",172954319,130170),
18 (9,"RUSSIA",144444359,16376870),
19 (10,"MEXICO",128455567,1943950);
20 • SELECT * FROM country;
```

Result Grid				
		Filter Rows:	Edit:	
	Id	Country_name	Population	Area
▶	1	INDIA	1428627663	2973190
	2	CHINA	1425671352	9388211
	3	UNITED STATES	339996563	9147420
	4	INDONESIA	277534122	1811570
	5	PAKISTAN	240485658	770880
	6	NIGERIA	223804632	910770
	7	BRAZIL	216422446	8358140
	8	BANGLADESH	172954319	130170
	9	RUSSIA	144444359	16376870
	10	MEXICO	128455567	1943950
*	NULL	NULL	NULL	NULL

```

22 • CREATE TABLE persons (
23     Id INT PRIMARY KEY,
24     First_name VARCHAR (50),
25     Last_name VARCHAR (50),
26     Population BIGINT ,
27     Rating FLOAT,
28     Country_Id INT ,
29     Country_name VARCHAR(50),
30     FOREIGN KEY (country_Id) REFERENCES country (Id)
31 );
32
33 • INSERT INTO persons VALUES
34     (1,"DHRUV","RATHEE",1428627663,3.8,1,"INDIA"),
35     (2,"MEI","CHAO",1425671352,3.9,2,"CHINA"),
36     (3,"NOAH","OLIVER",339996563,4.6,3,"UNITED STATES"),
37     (4,"AGUS","TONO",277534122,3.5,4,"INDONESIA"),
38     (5,"SHIBRA","SHAMEER",240485658,4.8,5,"PAKISTAN"),
39     (6,"OLUMIDE","NGOZI",223804632,2.8,6,"NIGERIA"),
40     (7,"AZKA","AZLAN",240485658,4.8,5,"PAKISTAN"),
41     (8,"SADIA","FAHIM",172954319,2.1,8,"BANGLADESH"),
42     (9,"ALEXANDER","IVAN",144444359,4.0,9,"RUSSIA"),
43     (10,"MARIA","DANIEL",339996563,4.6,3,"UNITED STATES"),
44     (11,"JUSTIN","FRIDGE",339996563,4.6,3,"UNITED STATES");
45
46 • SELECT * FROM persons;

```

	Id	First_name	Last_name	Population	Rating	Country_Id	Country_name
▶	1	DHRUV	RATHEE	1428627663	3.8	1	INDIA
	2	MEI	CHAO	1425671352	3.9	2	CHINA
	3	NOAH	OLIVER	339996563	4.6	3	UNITED STATES
	4	AGUS	TONO	277534122	3.5	4	INDONESIA
	5	SHIBRA	SHAMEER	240485658	4.8	5	PAKISTAN
	6	OLUMIDE	NGOZI	223804632	2.8	6	NIGERIA
	7	AZKA	AZLAN	240485658	4.8	5	PAKISTAN
	8	SADIA	FAHIM	172954319	2.1	8	BANGLADESH
	9	ALEXANDER	IVAN	144444359	4	9	RUSSIA
	10	MARIA	DANIEL	339996563	4.6	3	UNITED STATES
	11	JUSTIN	FRIDGE	339996563	4.6	3	UNITED STATES
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

1. Find the number of persons in each country.

81

```
82 • SELECT Country_name , COUNT(*) AS no_persons
83 FROM persons GROUP BY Country_name;
```




Result Grid	Filter Rows:	Export:	Wrap Ce
	Country_name	no_persons	
▶	INDIA	1	
	CHINA	1	
	UNITED STATES	3	
	INDONESIA	1	
	PAKISTAN	2	
	NIGERIA	1	
	BANGLADESH	1	
	RUSSIA	1	

2. Find the number of persons in each country sorted from high to low.

```

85 • SELECT Country_name, COUNT(*) AS no_persons
86 FROM persons GROUP BY Country_name
87 ORDER BY no_persons DESC;

```

Result Grid |   Filter Rows: | Export:  | Wrap

	Country_name	no_persons
▶	UNITED STATES	3
	PAKISTAN	2
	INDIA	1
	CHINA	1
	INDONESIA	1
	NIGERIA	1
	BANGLADESH	1
	RUSSIA	1

3. Find out an average rating for Persons in respective countries if the average is greater than 3.0

```

89 • SELECT Country_name, AVG(Rating) AS avg_rating
90 FROM persons GROUP BY Country_name
91 HAVING AVG(Rating) > 3.0;

```

Result Grid

Filter Rows:

Export:

Wrap Cell

	Country_name	avg_rating
▶	INDIA	3.799999952316284
	CHINA	3.9000000953674316
	UNITED STATES	4.599999904632568
	INDONESIA	3.5
	PAKISTAN	4.800000190734863
	RUSSIA	4

4. Find the countries with the same rating as the USA. (Use Subqueries)

```

96 • SELECT Country_name ,AVG(Rating) FROM persons
97     WHERE Country_name ='UNITED STATES';

```

Result Grid			Filter Rows:	<input type="text"/>	Export:		Wrap C
	Country_name	AVG(Rating)					
▶	UNITED STATES	4.599999904632568					

OR

```

98 • SELECT Country_name FROM persons
99     GROUP BY Country_name HAVING AVG(Rating) =
100     (SELECT AVG(Rating) FROM persons
101      WHERE Country_name = 'UNITED STATES' );
102

```

Result Grid			Filter Rows:	<input type="text"/>	Export:		W
	Country_name						
▶	UNITED STATES						

5. Select all countries whose population is greater than the average population of all nations.

```

103 • SELECT Country_name ,Population FROM country
104     WHERE Population > (SELECT AVG(Population) FROM country);

```

Result Grid			Filter Rows:	<input type="text"/>	Export:		Wrap Cell Content:
	Country_name	Population					
▶	INDIA	1428627663					
	CHINA	1425671352					