Assignment 6

Joins and Union

Consider the Country table and Persons table that you created earlier.

Query and Result

```
4 • ⊖ create table country (id int primary key,
       country_name_varchar(50),
       population varchar(50),
 6
     area sqkm varchar(50));
 7
       desc country;
 8 •
       insert into country(id, country_name, population, area_sqkm)
9 •
       values(1, 'India', '90000000', '32 lakhs'),
10
       (2, 'China', '90000000', '97 lakhs'),
11
       (3, 'USA', '80000000', '93 lakhs'),
12
13
       (4, 'UK', '70000000', '2 lakhs'),
       (5, 'Canada', '60000000', '99 lakhs'),
14
       (6, 'Australia', '50000000', '50 lakhs'),
15
       (7, 'Netherlands', '40000000', '32 lakhs'),
16
       (8, 'Sweden', '30000000', '4 lakhs'),
17
       (9, 'Austria', '20000000', '3 lakhs'),
18
       (10, 'Switzerland', '10000000', '2 lakhs');
19
       select*from country;
20 •
```

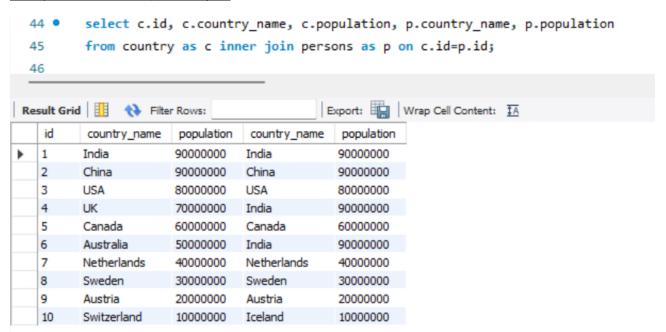
	id	country_name	population	area_sqkm			
•	1	India	90000000	32 lakhs	-		
	2	China	90000000	97 lakhs			
	3	USA	80000000	93 lakhs			
	4	UK	70000000	2 lakhs			
	5	Canada	60000000	99 lakhs			
	6	Australia	50000000	50 lakhs			
	7	Netherlands	40000000	32 lakhs			
	8	Sweden	30000000	4 lakhs			
	9	Austria	20000000	3 lakhs			
	10	Switzerland	10000000	2 lakhs			
	NULL	NULL	NULL	NULL			

```
22 • 🔾 create table persons (id int primary key,
23
       first name varchar(50),
24
       last name varchar(50),
25
       population varchar(50),
26
       rating decimal(10,2),
27
       country id int,
28
       country_name varchar(50));
29 •
       desc persons;
30 •
       insert into persons(id, first_name, last_name, population, rating, country_id, country_name)
       values(1, 'Lisha', 'Thomas', '90000000', 1.71, 1, 'India'),
31
       (2, 'Chaang', 'Yaang', '90000000', 2.52, 2, 'China'),
32
33
       (3, 'Thomas', 'Cook', '80000000', 3.23, 3, 'USA'),
       (4, 'Diana', 'Xavier', '90000000', 1.84, 1, 'India'),
34
       (5, 'Freddy', 'Dainz', '60000000', 5.35, 5, 'Canada'),
35
       (6, 'Hari', 'Sharma', '90000000', 1.96, 1, 'India'),
36
       (7, 'william', 'Blake', '40000000', 7.47, 7, 'Netherlands'),
37
       (8, 'Right', 'Thomas', '30000000',8.18, 8, 'Sweden'),
38
       (9, 'Cindrella', 'John', '20000000', 9.69, 9, 'Austria'),
39
       (10, 'Irene', 'Dizooza', '10000000', 10.10, 10, 'Iceland');
40
       select*from persons;
41 •
```

	id	first_name	last_name	population	rating	country_id	country_name
•	1	Lisha	Thomas	90000000	1.71	1	India
	2	Chaang	Yaang	90000000	2.52	2	China
	3	Thomas	Cook	80000000	3.23	3	USA
	4	Diana	Xavier	90000000	1.84	1	India
	5	Freddy	Dainz	60000000	5.35	5	Canada
	6	Hari	Sharma	90000000	1.96	1	India
	7	william	Blake	40000000	7.47	7	Netherlands
	8	Right	Thomas	30000000	8.18	8	Sweden
	9	Cindrella	John	20000000	9.69	9	Austria
	10	Irene	Dizooza	10000000	10.10	10	Iceland
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

Query and Result for (a) Inner join

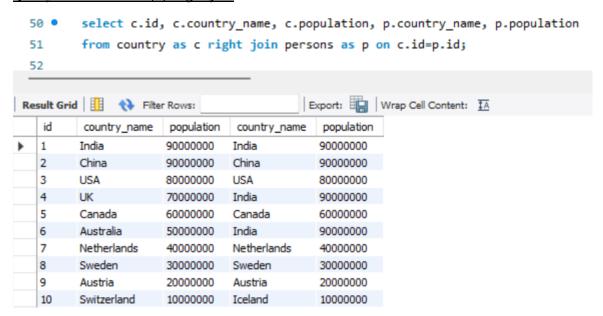


Query and Result for (a) Left join

47 • select c.id, c.country_name, c.population, p.country_name, p.population
48 from country as c left join persons as p on c.id=p.id;
49



Query and Result for (a) Right join



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

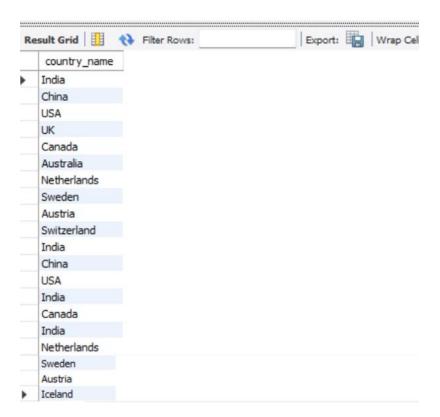
Query and Result



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

Query and Result

```
#List all country names from both the Country and Persons tables, including duplicates
select country_name from country
union all
select country_name from persons;
```



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

Query and Result

- #Round the ratings of all persons to the nearest integer in the Persons table select rating, round(rating) as round_rating from persons;
- Result Grid Export: Wrap Cell Content: IA Filter Rows: round_rating rating 1.71 2 2.52 3 3.23 3 2 1.84 5.35 1.96 2 7.47 7 8.18 8 9.69 10 10.10 10