SQL – QUERYING DATA

-- Create a table named Country with fields: Id Country_name Population Area

```
CREATE TABLE Country (
  Id INT PRIMARY KEY,
  Country_name VARCHAR(100),
  Population BIGINT,
  Area INT
);
desc country;
                                          Export: Wrap Cell Content: TA
Result Grid Filter Rows:
     Field
                                            Default
                                                    Extra
                  Type
                               Null
                                     Key
                                           NULL
                  int
                              NO
                                     PRI
                                           NULL
    Country_name
                  varchar(100)
                              YES
                                           NULL
    Population
                  bigint
                               YES
```

YES

Area

int

-- Create another table named Persons with fields: Id Fname Lname Population Rating Country_Id Country_name

NULL

```
CREATE TABLE Persons (
Id INT PRIMARY KEY,
Fname VARCHAR(100),
Lname VARCHAR(100),
Population INT,
Rating DECIMAL(3, 2),
Country_Id INT,
Country_name VARCHAR(100),
FOREIGN KEY (Country_Id) REFERENCES Country(Id)
);
desc persons;
```



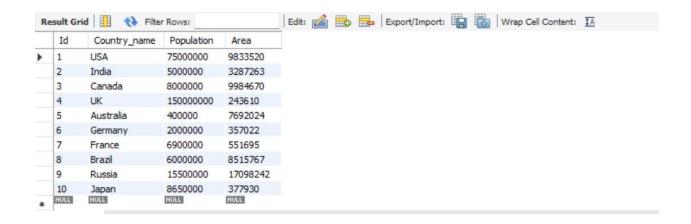
-- Insert data into Country table

INSERT INTO Country (Id, Country_name, Population, Area)

VALUES

- (1, 'USA', 75000000, 9833520),
- (2, 'India', 5000000, 3287263),
- (3, 'Canada', 8000000, 9984670),
- (4, 'UK', 150000000, 243610),
- (5, 'Australia', 400000, 7692024),
- (6, 'Germany', 2000000, 357022),
- (7, 'France', 6900000, 551695),
- (8, 'Brazil', 6000000, 8515767),
- (9, 'Russia', 15500000, 17098242),
- (10, 'Japan', 8650000, 377930);

select * from country;



-- Insert data into Persons table

INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_name)
VALUES

- (1, 'Jeeva', 'Joseph', 75000000, 4.5, 1, 'USA'),
- (2, 'Arya', 'Shan', 5000000, 3.8, 2, 'India'),
- (3, 'Emma', 'Emmi', 8000000, 4.9, 3, 'Canada'),
- (4, 'Basim', 'Johny', 150000000, 4.2, 4, 'UK'),
- (5, 'Aryan', 'John', 400000, 3.9, 5, 'Australia'),
- (6, 'Maria', 'Grace', 2000000, 4.7, 6, 'Germany'),
- (7, 'James', 'Wilson', 6900000, 2.1, 7, 'France'),
- (8, 'Suzzy', 'Martin', 6000000, 4.0, 8, 'Brazil'),
- (9, 'Robert', 'Williams', 15500000, 1.7, 9, 'Russia'),
- (10, 'Jane', 'Taylor', 8650000, 4.6, 10, 'Japan');

select * from persons;



-- (1)List the distinct country names from the Persons table

SELECT DISTINCT Country_name FROM Persons;



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

SELECT Fname AS First_Name, Lname AS Last_Name FROM Persons;



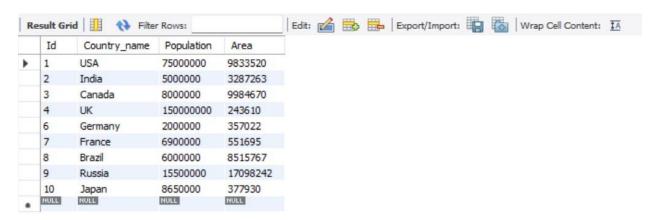
-- (3) Find all persons with a rating greater than 4.0.

SELECT * FROM Persons WHERE Rating > 4.0:

		Grid			Edit:				
	Id	Fname	Lname	Population	Rating	Country_Id	Country_name		
•	1	Jeeva	Joseph	75000000	4.50	1	USA		
	3	Emma	Emmi	8000000	4.90	3	Canada		
	4	Basim	Johny	150000000	4.20	4	UK		
	6	Maria	Grace	2000000	4.70	6	Germany		
	10	Jane	Taylor	8650000	4.60	10	Japan		
	NULL	NULL	NULL	NULL	NULL	NULL	NULL		

-- (4) Find countries with a population greater than 10 lakhs.

SELECT * FROM country WHERE Population > 1000000;



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

SELECT * FROM Persons

WHERE Country_name = 'USA' OR Rating > 4.5;



-- (6) Find all persons where the country name is NULL.

SELECT * FROM Persons

WHERE Country_name IS NULL;



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

SELECT * FROM Persons

WHERE Country_name IN ('USA', 'Canada', 'UK');



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

SELECT * FROM Persons

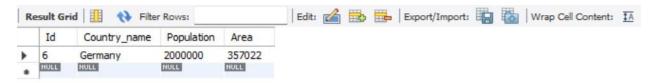
WHERE Country name NOT IN ('India', 'Australia');



-- (9) Find all countries with a population between 5 lakh and 2 lakhs

SELECT * FROM Country

WHERE Population BETWEEN 500000 AND 2000000;



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

SELECT * FROM Country

WHERE Country name NOT LIKE 'C%';

