

## 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;
```

Field	Type	Null	Key	Default	Extra
Id	int	NO	PRI	NULL	
Country_name	varchar(100)	YES		NULL	
Population	bigint	YES		NULL	
Area	int	YES		NULL	

**-- Create another table named Persons with fields: Id Fname Lname Population Rating Country\_Id Country\_name**

```
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;
```

Result Grid						
		Filter Rows:				
				Export:	Wrap Cell Content:	
	Field	Type	Null	Key	Default	Extra
►	Id	int	NO	PRI	NULL	
	Fname	varchar(100)	YES		NULL	
	Lname	varchar(100)	YES		NULL	
	Population	int	YES		NULL	
	Rating	decimal(3,2)	YES		NULL	
	Country_Id	int	YES	MUL	NULL	
	Country_name	varchar(100)	YES		NULL	

### -- 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;
```

Result Grid		Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
	Id	Country_name	Population	Area	
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		
*	NULL	NULL	NULL	NULL	

### -- 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;
```

Result Grid		Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:	
	Id	Fname	Lname	Population	Rating	Country_Id	Country_name		
▶	1	Jeeva	Joseph	75000000	4.50	1	USA		
	2	Arya	Shan	5000000	3.80	2	India		
	3	Emma	Emmi	8000000	4.90	3	Canada		
	4	Basim	Johny	150000000	4.20	4	UK		
	5	Aryan	John	400000	3.90	5	Australia		
	6	Maria	Grace	2000000	4.70	6	Germany		
	7	James	Wilson	6900000	2.10	7	France		
	8	Suzzy	Martin	6000000	4.00	8	Brazil		
	9	Robert	Williams	15500000	1.70	9	Russia		
	10	Jane	Taylor	8650000	4.60	10	Japan		
★	NULL	NULL	NULL	NULL	NULL	NULL	NULL		

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


SELECT DISTINCT Country\_name FROM Persons;

Result Grid		Filter Rows:		Export:		Wrap Cell Content:	
	Country_name						
▶	USA						
	India						
	Canada						
	UK						
	Australia						
	Germany						
	France						
	Brazil						
	Russia						
	Japan						

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


SELECT Fname AS First\_Name, Lname AS Last\_Name FROM Persons;

Result Grid




Filter Rows:

Export:



Wrap Cell Content:



	First_Name	Last_Name
▶	Jeeva	Joseph
	Arya	Shan
	Emma	Emmi
	Basim	Johny
	Aryan	John
	Maria	Grace
	James	Wilson
	Suzzy	Martin
	Robert	Williams
	Jane	Taylor

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

SELECT \* FROM Persons WHERE Rating > 4.0 ;

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	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 ;

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	Id	Country_name	Population	Area
▶	1	USA	75000000	9833520
	2	India	5000000	3287263
	3	Canada	8000000	9984670
	4	UK	150000000	243610
	6	Germany	2000000	357022
	7	France	6900000	551695
	8	Brazil	6000000	8515767
	9	Russia	15500000	17098242
	10	Japan	8650000	377930
*	NULL	NULL	NULL	NULL

-- (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;

Result Grid							
Filter Rows: <input type="text"/>							
Edit:							
Export/Import:							
Wrap Cell Content:							
	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
	6	Maria	Grace	2000000	4.70	6	Germany
	10	Jane	Taylor	8650000	4.60	10	Japan
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

SELECT \* FROM Persons

WHERE Country\_name IS NULL;

Result Grid							
Filter Rows: <input type="text"/>							
Edit:							
Export/Import:							
Wrap Cell Content:							
	Id	Fname	Lname	Population	Rating	Country_Id	Country_name
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

SELECT \* FROM Persons

WHERE Country\_name IN ('USA', 'Canada', 'UK');

Result Grid							
Filter Rows: <input type="text"/>							
Edit:							
Export/Import:							
Wrap Cell Content:							
	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
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

SELECT \* FROM Persons

WHERE Country\_name NOT IN ('India', 'Australia');

Result Grid							
		Filter Rows:		Edit:		Export/Import:	
	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
	7	James	Wilson	6900000	2.10	7	France
	8	Suzzy	Martin	6000000	4.00	8	Brazil
	9	Robert	Williams	15500000	1.70	9	Russia
	10	Jane	Taylor	8650000	4.60	10	Japan
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

SELECT \* FROM Country

WHERE Population BETWEEN 500000 AND 2000000;

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	Id	Country_name	Population	Area
▶	6	Germany	2000000	357022
*	NULL	NULL	NULL	NULL

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

SELECT \* FROM Country

WHERE Country\_name NOT LIKE 'C%';

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	Id	Country_name	Population	Area
▶	1	USA	75000000	9833520
	2	India	5000000	3287263
	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
*	NULL	NULL	NULL	NULL

