

Assignment 4:

Querying Data

Insert 10 rows into both tables, as given below.

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

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

Query and Results

```
1 • create database assignment_4;
2 • use assignment_4;
3 • create table country (id int primary key,
4   country_name varchar(50),
5   population varchar(50),
6   area varchar(50));
7 • desc country;
8 • insert into country(id, country_name, population, area)
9   values(1, 'India', '145 crore', '32 lakhs'),
10  (2, 'China', '141 crore', '97 lakhs'),
11  (3, 'USA', '35 crore', '93 lakhs'),
12  (4, 'UK', '6 crore', '2 lakhs'),
13  (5, 'Canada', '3 crore', '99 lakhs'),
14  (6, 'Australia', '2 crore', '50 lakhs'),
15  (7, 'Netherlands', '1 crore', '32 lakhs'),
16  (8, 'Sweden', '1 crore', '4 lakhs'),
17  (9, 'Austria', '91 lakhs', '3 lakhs'),
18  (10, 'Switzerland', '89 lakhs', '2 lakhs');
19 • select*from country;

21 • create table persons (id int primary key,
22   first_name varchar(50),
23   last_name varchar(50),
24   population_rating varchar(50),
25   country_id int,
26   country_name varchar(50));
27 • desc persons;
28 • insert into persons(id, first_name, last_name, population_rating, country_id, country_name)
29   values(1, 'Lisha', 'Thomas', '1', 1, 'India'),
30  (2, 'Irene', 'Dizooza', '10', 10, 'NULL'),
31  (3, 'Chaang', 'Yaang', '2', 2, 'China'),
32  (4, 'Thomas', 'Cook', '3', 3, 'USA'),
33  (5, 'Diana', 'William', '4', 4, 'UK'),
34  (6, 'Freddy', 'Dainz', '5', 5, 'Canada'),
35  (7, 'Hillary', 'Gomez', '6', 6, 'Australia'),
36  (8, 'william', 'Blake', '7', 7, 'NULL'),
37  (9, 'Right', 'Thomas', '8', 8, 'Sweden'),
38  (10, 'Cindrella', 'John', '9', 9, 'Austria');
39 • select*from persons;
```

Result Grid				
		Filter Rows:		Edit:
	id	country_name	population	area
▶	1	India	145 crore	32 lakhs
	2	China	141 crore	97 lakhs
	3	USA	35 crore	93 lakhs
	4	UK	6 crore	2 lakhs
	5	Canada	3 crore	99 lakhs
	6	Australia	2 crore	50 lakhs
	7	Netherlands	1 crore	32 lakhs
	8	Sweden	1 crore	4 lakhs
	9	Austria	91 lakhs	3 lakhs
	10	Switzerland	89 lakhs	2 lakhs
*	NULL	NULL	NULL	NULL

Result Grid						
		Filter Rows:		Edit:		Export/Import:
	id	first_name	last_name	population_rating	country_id	country_name
▶	1	Lisha	Thomas	1	1	India
	2	Irene	Dizooza	10	10	NULL
	3	Chaang	Yaang	2	2	China
	4	Thomas	Cook	3	3	USA
	5	Diana	William	4	4	UK
	6	Freddy	Dainz	5	5	Canada
	7	Hillary	Gomez	6	6	Australia
	8	william	Blake	7	7	NULL
	9	Right	Thomas	8	8	Sweden
	10	Cindrella	John	9	9	Austria
*	NULL	NULL	NULL	NULL	NULL	NULL

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

Query and Results

```

41 #distinct country names from the Persons table
42 • select distinct country_name from persons where country_name!='NULL';
43

```

Result Grid	
	Filter Rows:
country_name	
▶ India	
China	
USA	
UK	
Canada	
Australia	
Sweden	
Austria	

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

Query and Results

```
44 #Select first names and last names from the Persons table with aliases
45 • select first_name as FIRSTNAME, last_name as LASTNAME from persons;
46
```

	FIRSTNAME	LASTNAME
▶	Lisha	Thomas
	Irene	Dizooza
	Chaang	Yaang
	Thomas	Cook
	Diana	William
	Freddy	Dainz
	Hillary	Gomez
	william	Blake
	Right	Thomas
	Cindrella	John

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

Query and Results

```
47 #Find all persons with a rating greater than 4.0
48 • select first_name, last_name, population_rating from persons where population_rating>4;
49
```

	first_name	last_name	population_rating
▶	Irene	Dizooza	10
	Freddy	Dainz	5
	Hillary	Gomez	6
	william	Blake	7
	Right	Thomas	8
	Cindrella	John	9

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

Query and Results

```
50 #Find countries with a population greater than 10 lakhs
51 • select country_name, population from country where population>'10 lakhs';
52
```

	country_name	population
▶	India	145 crore
	China	141 crore
	USA	35 crore
	UK	6 crore
	Canada	3 crore
	Australia	2 crore
	Austria	91 lakhs
	Switzerland	89 lakhs

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

Query and Results

```
53      #Find persons who are from 'USA' or have a rating greater than 4.5
54 •    select first_name, last_name, country_name, population_rating from persons where
55      country_name='USA' or population_rating>4.5;
56
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:				
	first_name	last_name	country_name	population_rating
▶	Irene	Dizooza	NULL	10
	Thomas	Cook	USA	3
	Freddy	Dainz	Canada	5
	Hillary	Gomez	Australia	6
	william	Blake	NULL	7
	Right	Thomas	Sweden	8
	Cindrella	John	Austria	9

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

Query and Results

```
57      #Find all persons where the country name is NULL
58 •    select first_name, last_name, country_name from persons where country_name='NULL';
59
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:			
	first_name	last_name	country_name
▶	Irene	Dizooza	NULL
	william	Blake	NULL

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

Query and Results

```
60      #Find all persons from the countries 'USA', 'Canada', and 'UK'
61 •    select first_name,last_name, country_name from persons where
62      country_name in ('USA', 'Canada', 'UK');
63
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:			
	first_name	last_name	country_name
▶	Thomas	Cook	USA
	Diana	William	UK
	Freddy	Dainz	Canada

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

Query and Results

```
64 #Find all persons not from the countries 'India' and 'Australia'
65 • select first_name,last_name, country_name from persons where
66 country_name not in ('India', 'Australia') ;
67
```

	first_name	last_name	country_name
▶	Irene	Dizooza	NULL
	Chaang	Yaang	China
	Thomas	Cook	USA
	Diana	William	UK
	Freddy	Dainz	Canada
	william	Blake	NULL
	Right	Thomas	Sweden
	Cindrella	John	Austria

- (9) Find all countries with a population between 5 lakhs and 20 lakhs.

Query and Results

```
68 #Find all countries with a population between 5 lakhs and 20 lakhs
69 • select country_name from country where population between '5 lakhs' and '20 lakhs';
70
```

	country_name

Toggle wrapping of cell contents

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

Query and Results

```
71 #Find all countries whose names do not start with 'C'
72 • select country_name from country where country_name not like 'C%';
73
```

	country_name
▶	India
	USA
	UK
	Australia
	Netherlands
	Sweden
	Austria
	Switzerland