

1. Write an SQL query to print the first three characters of Country_name from the Country table.

```
51      -- Q1
52 •    SELECT left(Country_name,3) AS Country FROM Country;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	Country
▶	USA
	Can
	UK
	Aus
	Ind
	Chi
	Jap
	Bra
	Ger
	Fra

2. Write an SQL query to concatenate first name and last name from Persons table.

```
54      -- Q2
55 •    SELECT concat(Fname, ' ',Lname) As Name From persons;
56
--      --
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	Name
▶	John Doe
	Jane Smith
	Mike Brown
	Emma Wilson
	Liam Taylor
	Olivia White
	Ava Thomas
	William Lee
	Sophia Green

3. Write an SQL query to count the number of unique country names from Persons table.

```
57 -- Q3
58 • SELECT count(Distinct country_name) As Count From persons;
--
```

Result Grid

Count
10

4. Write a query to print the maximum population from the Country table.

```
62 • SELECT country_name, population FROM Country WHERE population=(SELECT max(population) FROM country) ;
--
```

Result Grid

country_name	population
China	1440000000

5. Write a query to print the minimum population from Persons table.

```
65 • SELECT concat(Fname, ' ',Lname) AS NAME,population FROM persons WHERE population = (SELECT min(population) FROM persons);
--
```

Result Grid

NAME	population
Mike Brown	20000
Sophia Green	20000
Eve Taylor	20000

6. Insert 2 new rows to the Persons table making the Lname NULL. Then write another query to count Lname from Persons table.

```
67 -- Q6
68 • INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_name)
69 VALUES
70 (11, 'Chris', NULL, 70000, 4.3, 5, 'India'),
71 (12, 'Taylor', NULL, 50000, 3.8, 6, 'China');
72
73 • SELECT count(Lname) FROM Persons;
--
```

Result Grid

count(Lname)
18

7. Write a query to find the number of rows in the Persons table.

```
75      -- Q7
76 •    SELECT count(id) FROM Persons;
```

Result Grid | Filter Rows: Export:

	count(id)
▶	20

8. Write an SQL query to show the population of the Country table for the first 3 rows. (Hint: Use LIMIT)

```
78      -- Q8
79 •    SELECT * FROM country LIMIT 3;
```

Result Grid | Filter Rows: Edit: Export/

	Id	Country_name	Population	Area
▶	1	USA	331000000	9834000.00
	2	Canada	38000000	9985000.00
	3	UK	67000000	243610.00
•	NULL	NULL	NULL	NULL

9. Write a query to print 3 random rows of countries. (Hint: Use rand() function and LIMIT)

```
81      -- Q9
82 •    SELECT * FROM country order by rand() LIMIT 3;
```

Result Grid | Filter Rows: Edit:

	Id	Country_name	Population	Area
▶	2	Canada	38000000	9985000.00
	3	UK	67000000	243610.00
	9	Germany	83020000	357386.00
•	NULL	NULL	NULL	NULL

10. List all persons ordered by their rating in descending order.

```
84 -- Q10
85 • SELECT * FROM persons order by rating desc;
--
```

	Id	Fname	Lname	Population	Rating	Country_Id	Country_name
▶	8	William	Lee	40000	4.90	8	Brazil
	2	Jane	Smith	150000	4.80	2	Canada
	1	John	Doe	50000	4.50	1	USA
	13	Carol	Smith	25000	4.50	1	USA
	19	Ian	Lewis	42000	4.40	2	Canada
	7	Ava	Thomas	30000	4.30	7	Japan
	11	Chris	Miller	70000	4.30	5	India
	17	Grace	Brown	27000	4.30	3	UK
	4	Emma	Wilson	60000	4.20	4	Australia
	15	Eve	Taylor	20000	4.20	2	Canada
	6	Olivia	White	50000	4.10	6	China
	18	Hannah	Clark	45000	4.10	1	USA
	3	Mike	Brown	20000	4.00	3	UK

11. Find the total population for each country in the Persons table.

```
87 -- Q11
88 • SELECT country_name, sum(population) AS population FROM persons GROUP BY country_name;
--
```

	country_name	population
▶	USA	120000
	Canada	252000
	UK	120000
	Australia	60000
	India	150000
	China	100000
	Japan	30000
	Brazil	40000
	Germany	20000
	France	100000

12. Find countries in the Persons table with a total population greater than 50,000

```
90 -- Q12
91 • SELECT country_name, sum(population) AS population FROM persons GROUP BY Country_name HAVING population > 50000;
--
```

	country_name	population
▶	USA	120000
	Canada	252000
	UK	120000
	Australia	60000
	India	150000
	China	100000
	France	100000

13. List the total number of persons and average rating for each country, but only for countries with more than 2 persons, ordered by the average rating in ascending order.

```
93 -- Q13
94 • SELECT country_name, count(*) AS name, avg(rating) AS avg FROM persons GROUP BY country_name HAVING name > 2 ORDER BY avg;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	country_name	name	avg
▶	UK	4	3.950000
	Canada	4	4.350000
	USA	3	4.366667