

1. Add a new column called DOB in Persons table with data type as Date.

```
1 • ALTER TABLE Persons -- New column DOB added to persons
2   ADD DOB DATE;
3
4 • SELECT * FROM Persons;
```

	ID	Fname	Lname	Population	Rating	Country_Id	Country_name	DOB
▶	1	John	Doe	100000	4.50	1	USA	NULL
	2	Jane	Smith	50000	3.80	2	Canada	NULL
	3	Alice	NULL	30000	4.20	3	Brazil	NULL
	4	Bob	Brown	20000	3.50	4	Germany	NULL
	5	Charlie	NULL	15000	4.00	5	France	NULL
	6	David	Wilson	40000	2.80	6	India	NULL
	7	Eve	Johnson	25000	3.60	7	Australia	NULL
	8	Frank	Lee	60000	3.90	8	Mexico	NULL
	9	Grace	Davis	35000	4.70	9	Russia	NULL
▼	10	Blank	Garcia	00000	4.10	10	China	NULL

Persons 12 x

2. Write a user-defined function to calculate age using DOB.

```
5   -- user defined funtion to calculate age with DOB
6   DELIMITER $$
7 • CREATE FUNCTION agecalc_dob(DOB int)
8   RETURNS int
9   DETERMINISTIC
10  BEGIN
11    RETURN 2024-DOB;
12  END $$
13  DELIMITER ;
```

3. Write a select query to fetch the Age of all persons using the function that has been created.

```
17  -- Write a select query to fetch the Age of all persons using the function that has been created
18 • SELECT p.Id, p.Fname, agecalc_dob(p.DOB) AS Age FROM Persons p;
19
```

	ID	Fname	Age
▶	1	John	NULL
	2	Jane	NULL
	3	Alice	NULL
	4	Bob	NULL
	5	Charlie	NULL
	6	David	NULL
	7	Eve	NULL
	8	Frank	NULL
	9	Grace	NULL
▼	10	Blank	NULL

Result 13 x

4. Find the length of each country name in the Country table.

```
20  -- Find the length of each country name in the Country table.
21 • SELECT * FROM country;
22 • SELECT Id, Country_name, length(Country_name) AS Name_Length FROM Country;
23
```

	ID	Country_name	Name_Length
▶	1	USA	3
	2	Canada	6
	3	Brazil	6
	4	Germany	7
	5	France	6
	6	India	5
	7	Australia	9
	8	Mexico	6
	9	Russia	6
▼	10	China	5

Result 14 x

5. Extract the first three characters of each country's name in the Country table

```
24  -- Extract the first three characters of each country's name in the Country table
25 • SELECT ID, Country_Name, LEFT(Country_Name, 3) AS FirstThreeChars
26   FROM Country;
27
```

	ID	Country_Name	FirstThreeChars
▶	1	USA	USA
	2	Canada	Can
	3	Brazil	Bra
	4	Germany	Ger
	5	France	Fra
	6	India	Ind
	7	Australia	Aus
	8	Mexico	Mex
	9	Russia	Rus
▼	10	China	Chi

Result 15 x

6. Convert all country names to uppercase and lowercase in the Country table.

```
28  -- Convert all country names to uppercase and lowercase in the Country table.
29 • SELECT ID, Country_Name,
30    UPPER(Country_Name) AS UpperCaseName,
31    LOWER(Country_Name) AS LowerCaseName
32   FROM Country;
33
```

	ID	Country_Name	UpperCaseName	LowerCaseName
▶	1	USA	USA	usa
	2	Canada	CANADA	canada
	3	Brazil	BRAZIL	brazil
	4	Germany	GERMANY	germany
	5	France	FRANCE	france
	6	India	INDIA	india
	7	Australia	AUSTRALIA	australia
	8	Mexico	MEXICO	mexico
	9	Russia	RUSSIA	russia
▼	10	China	CHINA	china

Result 16 x