Consider the Country table and Persons table that you created earlier and perform the following:

```
CREATE DATABASE indexxx;
 1 •
 2 •
       USE indexxx;
 3 • ○ CREATE TABLE country (
       Id INT PRIMARY KEY,
       Country_name VARCHAR (50) NOT NULL,
 5
       Population BIGINT NOT NULL,
 6
      - Area BIGINT NOT NULL );
 7
 8
 9 •
       INSERT INTO country VALUES
       (1,"INDIA",1428627663,2973190),
10
11
       (2, "CHINA", 1425671352, 9388211),
       (3, "UNITED STATES", 339996563, 9147420),
12
       (4, "INDONESIA", 277534122, 1811570),
13
        (5, "PAKISTAN", 240485658, 770880),
14
15
        (6, "NIGERIA", 223804632, 910770),
        (7, "BRAZIL", 216422446, 8358140),
16
        (8, "BANGLADESH", 172954319, 130170),
17
       (9, "RUSSIA", 144444359, 16376870),
18
        (10, "MEXICO", 128455567, 1943950);
19
       SELECT * FROM country;
20 •
```

	Id	Country_name	Population	Area
١	1	INDIA	1428627663	2973190
	2	CHINA	1425671352	9388211
	3	UNITED STATES	339996563	9147420
	4	INDONESIA	277534122	1811570
	5	PAKISTAN	240485658	770880
	6	NIGERIA	223804632	910770
	7	BRAZIL	216422446	8358140
	8	BANGLADESH	172954319	130170
	9	RUSSIA	144444359	16376870
	10	MEXICO	128455567	1943950
	NULL	NULL	NULL	NULL

```
22 • 

CREATE TABLE persons (
23
       Id INT PRIMARY KEY,
        First name VARCHAR (50),
24
25
       Last_name VARCHAR (50),
       Population BIGINT,
26
        Rating FLOAT,
27
28
       Country_Id INT ,
29
       Country_name VARCHAR(50),
30
        FOREIGN KEY (country Id) REFERENCES country (Id)
31
      );
32
         INSERT INTO persons VALUES
33 •
34
         (1, "DHRUV", "RATHEE", 1428627663, 3.8, 1, "INDIA"),
         (2, "MEI", "CHAO", 1425671352, 3.9, 2, "CHINA"),
35
         (3,"NOAH","OLIVER",339996563,4.6,3,"UNITED STATES"),
36
         (4, "AGUS", "TONO", 277534122, 3.5, 4, "INDONESIA"),
37
         (5, "SHIBRA", "SHAMEER", 240485658, 4.8, 5, "PAKISTAN"),
38
         (6, "OLUMIDE", "NGOZI", 223804632, 2.8, 6, "NIGERIA"),
39
         (7, "AZKA", "AZLAN", 240485658, 4.8, 5, "PAKISTAN"),
40
         (8, "SADIA", "FAHIM", 172954319, 2.1, 8, "BANGLADESH"),
41
         (9, "ALEXANDER", "IVAN", 144444359, 4.0, 9, "RUSSIA"),
42
43
         (10, "MARIA", "DANIEL", 339996563, 4.6, 3, "UNITED STATES"),
         (11,"JUSTIN","FRIDGE",339996563,4.6,3,"UNITED STATES");
44
45
46 •
         SELECT * FROM persons;
```

	esult Grid 1							
	Id	First_name	Last_name	Population	Rating	Country_Id	Country_name	
•	1	DHRUV	RATHEE	1428627663	3.8	1	INDIA	
	2	MEI	CHAO	1425671352	3.9	2	CHINA	
	3	NOAH	OLIVER	339996563	4.6	3	UNITED STATES	
	4	AGUS	TONO	277534122	3.5	4	INDONESIA	
	5	SHIBRA	SHAMEER	240485658	4.8	5	PAKISTAN	
	6	OLUMIDE	NGOZI	223804632	2.8	6	NIGERIA	
	7	AZKA	AZLAN	240485658	4.8	5	PAKISTAN	
	8	SADIA	FAHIM	172954319	2.1	8	BANGLADESH	
	9	ALEXANDER	IVAN	144444359	4	9	RUSSIA	
	10	MARIA	DANIEL	339996563	4.6	3	UNITED STATES	
	11	JUSTIN	FRIDGE	339996563	4.6	3	UNITED STATES	
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

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

```
ALTER TABLE persons ADD COLUMN DOB DATE;
108 •
109
       UPDATE persons SET DOB = '2000-11-23' WHERE Id = 1;
110 •
       UPDATE persons SET DOB = '1997-02-05' WHERE Id = 2;
111 •
       UPDATE persons SET DOB = '1998-09-17' WHERE Id = 3;
112 •
       UPDATE persons SET DOB = '2001-04-04' WHERE Id = 4;
113 •
114 •
       UPDATE persons SET DOB = '1984-11-28' WHERE Id = 5;
115 •
       UPDATE persons SET DOB = '1980-10-31' WHERE Id = 6;
       UPDATE persons SET DOB = '1993-09-02' WHERE Id = 7;
116 •
117 •
       UPDATE persons SET DOB = '1997-12-04' WHERE Id = 8;
       UPDATE persons SET DOB = '1997-08-28' WHERE Id = 9;
119 •
       UPDATE persons SET DOB = '2003-10-28' WHERE Id = 10;
120 •
       UPDATE persons SET DOB = '1999-10-07' WHERE Id = 11;
121
122 •
       SELECT * FROM persons;
123
                                     Edit: 🚄 🖶 🖶 Export/Import: 🙀 👸 Wrap Cell Conter
First_name Last_name Population
                                     Rating Country_Id Country_name DOB
       DHRUV
                 RATHEE
                           1428627663
  1
                 CHAO
  2
       MEI
                          1425671352 3.9 2
                                                     CHINA
                                                                  1997-02-05
                                                     UNITED STATES 1998-09-17
  3
       NOAH
                 OLIVER
                           339996563 4.6
                                           3
                TONO 277534122 3.5 4
       AGUS
                                                   INDONESIA 2001-04-04
       SHIBRA
                 SHAMEER
                          240485658 4.8
                                                     PAKISTAN
                                                                  1984-11-28
  6 OLUMIDE NGOZI 223804632 2.8 6
                                                  NIGERIA
                                                                1980-10-31
  7
       AZKA
                 AZLAN
                           240485658 4.8
                                           5
                                                     PAKISTAN
                                                                  1993-09-02
       SADIA
                 FAHIM 172954319 2.1 8
                                                     BANGLADESH 1997-12-04
  8
  9
       ALEXANDER IVAN
                           144444359
  10
       MARIA DANIEL
                          339996563
                                    4.6 3
                                                     UNITED STATES 2003-10-28
       JUSTIN
                 FRIDGE
                           339996563
                                     4.6
                                                     UNITED STATES 1999-10-07
  11
                                     NULL
 NULL
       NULL
                 NULL
                          NULL
                                           NULL
                                                     NULL
                                                                  NULL
```

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

```
DELIMITER //

CREATE FUNCTION CalculateAge(DOB DATE)

RETURNS INT

BEGIN

DECLARE Age INT;

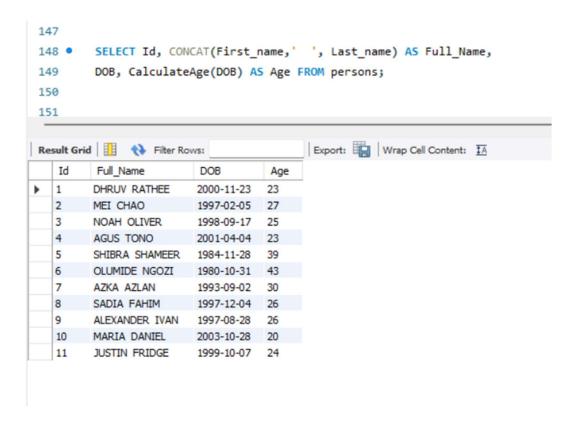
SET Age = TIMESTAMPDIFF(YEAR, DOB, CURDATE());

RETURN Age;

END //

DELIMITER;
```

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

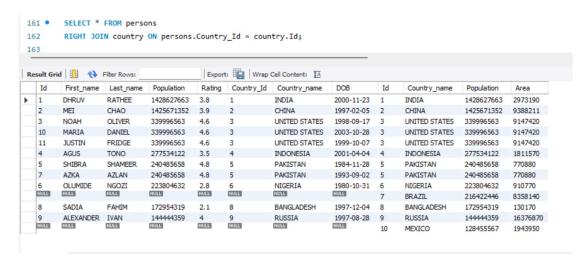


4. Perform inner join, Left join, and Right join on the tables

INNER JOIN

15	INNER JOIN country ON persons.Country_Id = country.Id; 156											
Re	Result Grid			Export: Wrap Cell Content: TA								
	Id	First_name	Last_name	Population	Rating	Country_Id	Country_name	DOB	Id	Country_name	Population	Area
-	1	DHRUV	RATHEE	1428627663	3.8	1	INDIA	2000-11-23	1	INDIA	1428627663	2973190
	2	MEI	CHAO	1425671352	3.9	2	CHINA	1997-02-05	2	CHINA	1425671352	9388211
	3	NOAH	OLIVER	339996563	4.6	3	UNITED STATES	1998-09-17	3	UNITED STATES	339996563	9147420
	4	AGUS	TONO	277534122	3.5	4	INDONESIA	2001-04-04	4	INDONESIA	277534122	1811570
	5	SHIBRA	SHAMEER	240485658	4.8	5	PAKISTAN	1984-11-28	5	PAKISTAN	240485658	770880
	6	OLUMIDE	NGOZI	223804632	2.8	6	NIGERIA	1980-10-31	6	NIGERIA	223804632	910770
	7	AZKA	AZLAN	240485658	4.8	5	PAKISTAN	1993-09-02	5	PAKISTAN	240485658	770880
	8	SADIA	FAHIM	172954319	2.1	8	BANGLADESH	1997-12-04	8	BANGLADESH	172954319	130170
	9	ALEXANDER	IVAN	144444359	4	9	RUSSIA	1997-08-28	9	RUSSIA	144444359	16376870
	10	MARIA	DANIEL	339996563	4.6	3	UNITED STATES	2003-10-28	3	UNITED STATES	339996563	9147420
	11	JUSTIN	FRIDGE	339996563	4.6	3	UNITED STATES	1999-10-07	3	UNITED STATES	339996563	9147420

RIGHT JOIN



LEFT JOIN

