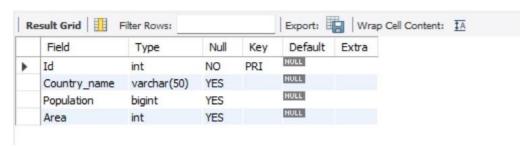
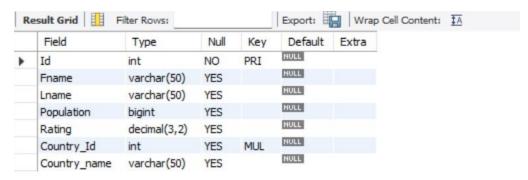
FUNCTIONS

Consider the Country table and Persons table that you created earlier (sorting and grouping)

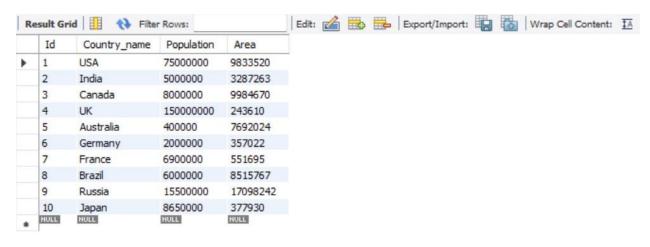
DESC country;



DESC persons;



select * from country;



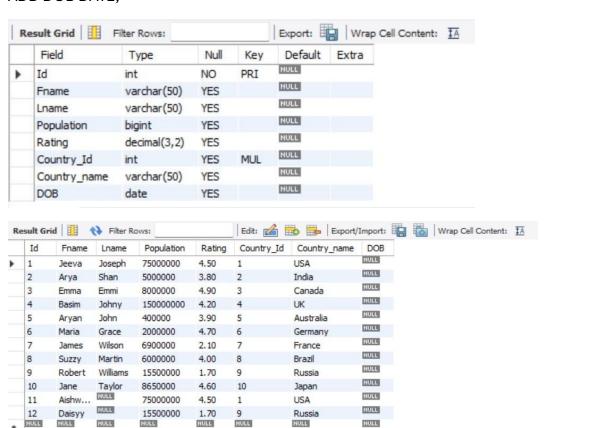
select * from persons;



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

ALTER TABLE Persons

ADD DOB DATE;



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

-- inserting DOB

UPDATE Persons

SET DOB = CASE

WHEN Id = 1 THEN '1990-01-01'

WHEN Id = 2 THEN '1985-06-15'

WHEN Id = 3 THEN '1983-08-18'

WHEN Id = 4 THEN '1988-06-05'

WHEN Id = 5 THEN '1980-04-16'

WHEN Id = 6 THEN '1988-01-19'

WHEN Id = 7 THEN '1999-07-29'

WHEN Id = 8 THEN '1985-08-25'

WHEN Id = 9 THEN '1982-11-16'

WHEN Id = 10 THEN '1983-02-27'

WHEN Id = 11 THEN '1988-12-25'

WHEN Id = 12 THEN '1990-01-13'

END

WHERE Id IN (1,2,3,4,5,6,7,8,9,10,11,12);

Id	Fname	Lname	Population	Rating	Country_Id	Country_name	DOB	
1	Jeeva	Joseph	75000000	4.50	1	USA	1990-01-01	
2	Arya	Shan	5000000	3.80	2	India	1985-06-15	
3	Emma	Emmi	8000000	4.90	3	Canada	1983-08-18	
4	Basim	Johny	150000000	4.20	4	UK	1988-06-05	
5	Aryan	John	400000	3.90	5	Australia	1980-04-16	
6	Maria	Grace	2000000	4.70	6	Germany	1988-01-19	
7	James	Wilson	6900000	2.10	7	France	1999-07-29	
8	Suzzy	Martin	6000000	4.00	8	Brazil	1985-08-25	
9	Robert	Williams	15500000	1.70	9	Russia	1982-11-16	
10	Jane	Taylor	8650000	4.60	10	Japan	1983-02-27	
11	Aishw	NULL	75000000	4.50	1	USA	1988-12-25	
12	Daisyy	NULL	15500000	1.70	9	Russia	1990-01-13	

-- -- user-defined function to calculate age using DOB.

DELIMITER //

CREATE FUNCTION Calculate_Age (DOB DATE)

RETURNS INT

DETERMINISTIC

BEGIN

RETURN TIMESTAMPDIFF(YEAR, DOB, CURDATE());

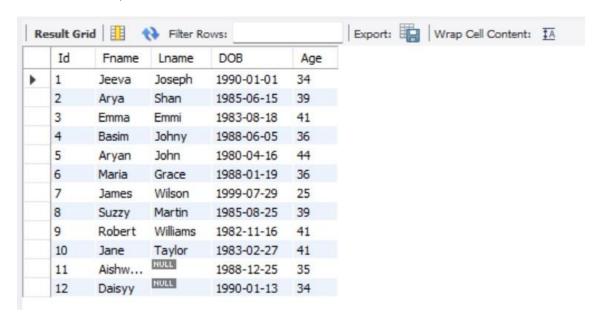
END //

DELIMITER;

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

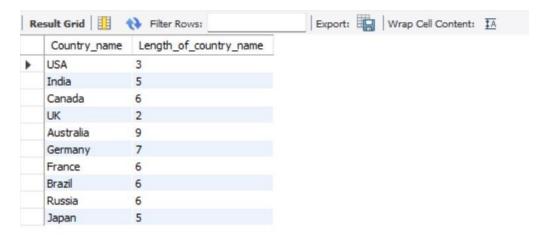
SELECT Id, Fname, Lname, DOB, CalculateAge(DOB) AS Age

FROM Persons;



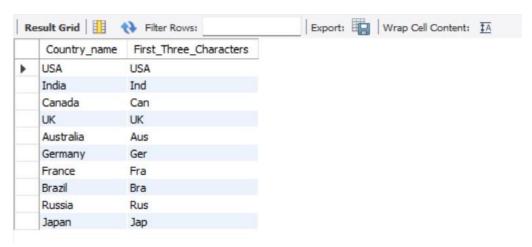
-- 4. Find the length of each country name in the Country table.

SELECT Country_name, LENGTH(Country_name) AS Length_of_country_name FROM Country;



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

SELECT Country_name, LEFT(Country_name, 3) AS First_Three_Characters FROM Country;



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

SELECT Country_name,

UPPER(Country_name) AS CountryName_Uppercase,

LOWER(Country_name) AS CountryName_Lowercase

FROM Country;

