Exercise 6

1. Write a stored procedure by the name of Comp_intr to calculate the amount of interest on a bank account that compounds interest yearly. The formula is:-

$$I = p (1+r) y - p$$

where:-

I is the total interest earned.

p is the principal.

r is the rate of interest as a decimal less than 1, and

y is the number of years the money is earning interest.

Your stored procedure should accept the values of p, r and y as parameters and insert the Interest and Total amount into tempp table.

Ans:

DELIMITER //

CREATE PROCEDURE Comp_intr(IN p FLOAT, IN r FLOAT, IN y INT)

BEGIN

DECLARE total FLOAT;

DECLARE interest FLOAT;

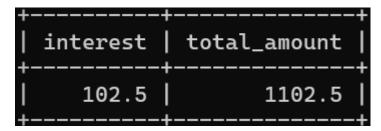
SET total = p * POW((1 + r), y);

SET interest = total - p;

INSERT INTO tempp (interest, total amount) VALUES (interest, total);

END://

DELIMITER;



2. Create a stored function by the name of Age_calc. Your stored function should accept the date of birth of a person as a parameter. The stored function should calculate the age of the person in years. The stored function should return the age

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in years.
Ans:
DELIMITER //
CREATE FUNCTION Age_calc(dob DATE)
RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE age INT;
    SET age = TIMESTAMPDIFF(YEAR, dob, CURDATE());
    RETURN age;
END;//
```



