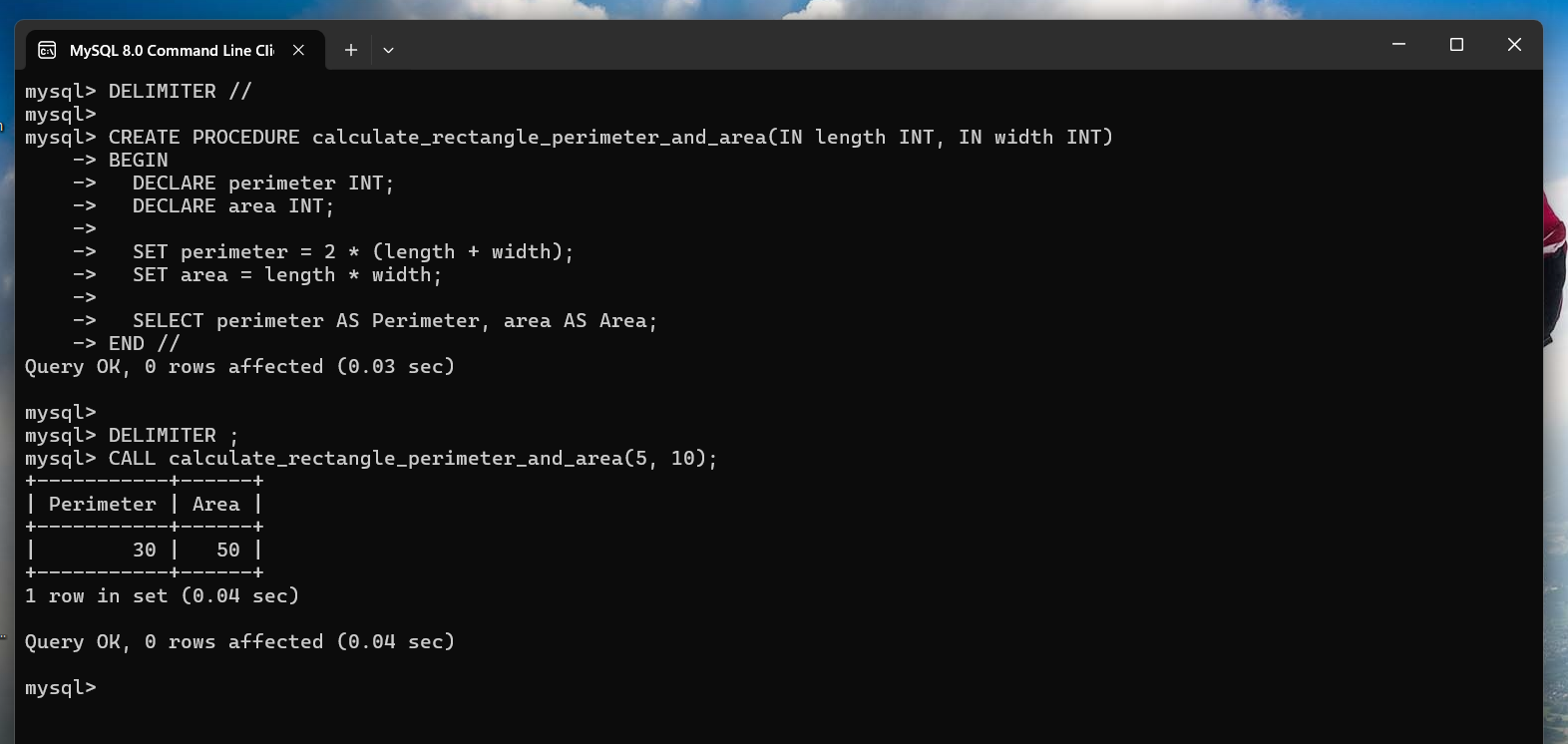
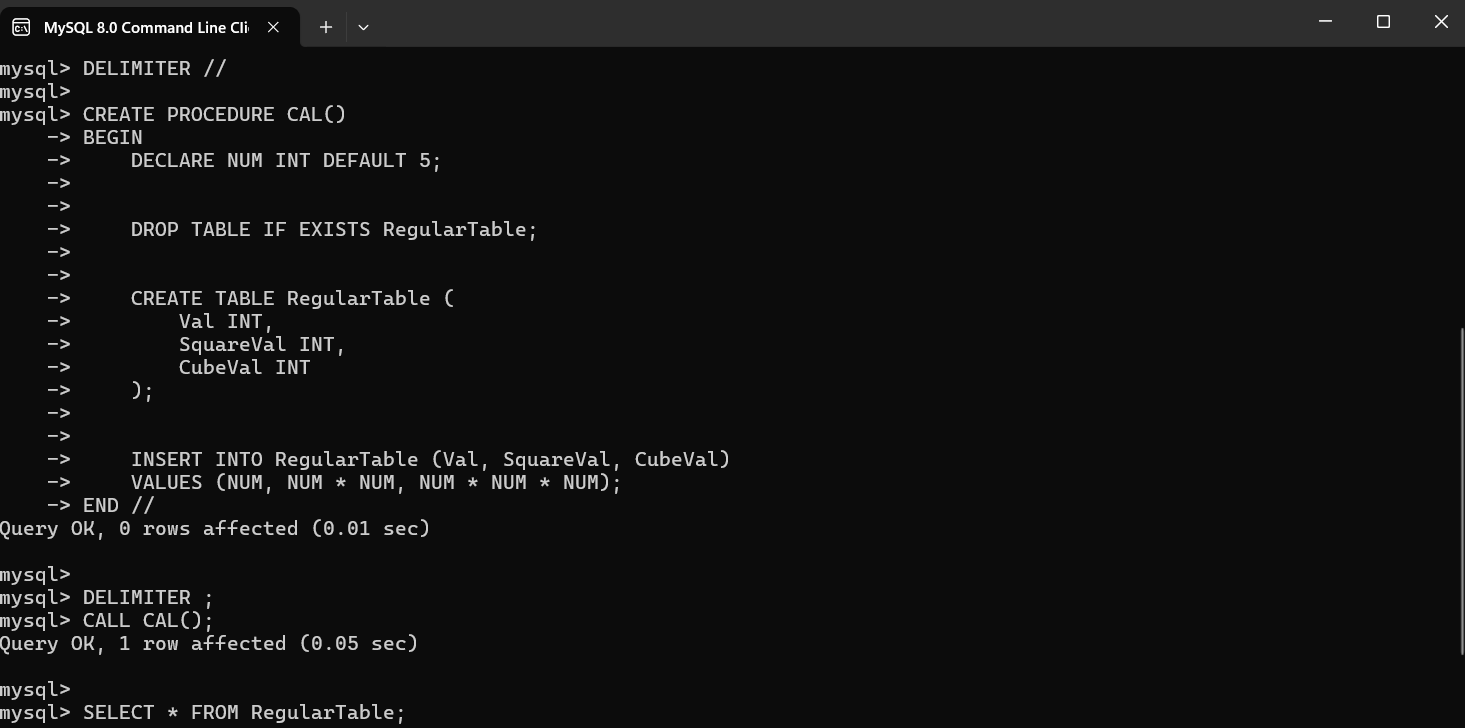
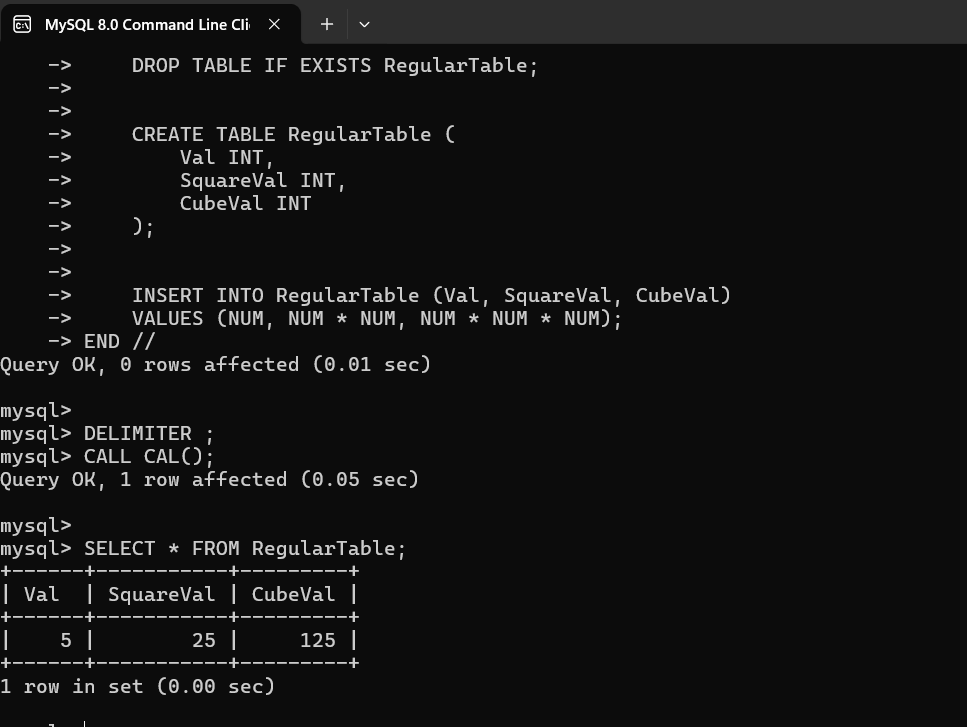
**MYSQL EXERCISE 1**

**1.**

****

**2.**

****

****

**3.**

DELIMITER //

CREATE PROCEDURE convert\_temperature(IN temp\_value DOUBLE, IN temp\_unit VARCHAR(1))

BEGIN

DECLARE converted\_temp DOUBLE;

IF temp\_unit = 'F' THEN

SET converted\_temp = (temp\_value - 32) \* 5 / 9;

ELSEIF temp\_unit = 'C' THEN

SET converted\_temp = (temp\_value \* 9 / 5) + 32;

ELSE

SIGNAL SQLSTATE '45000' SET MESSAGE\_TEXT = 'Invalid temperature unit. Must be "F" or "C".';

END IF;

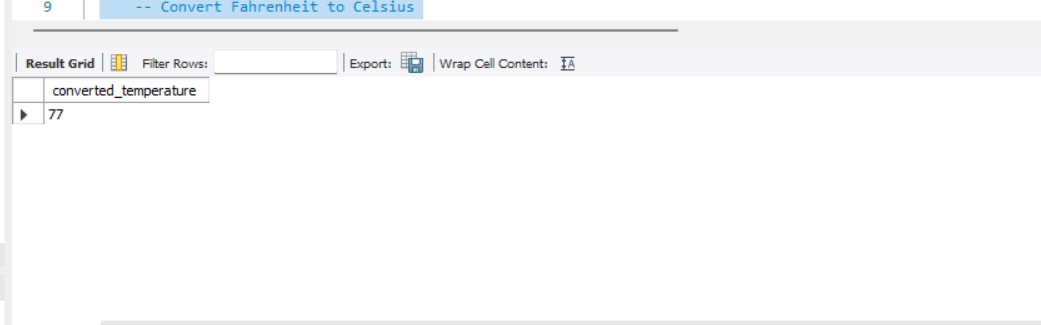
SELECT converted\_temp AS converted\_temperature;

END //

DELIMITER ;

CALL convert\_temperature(75, 'F'); -- Convert 75 Fahrenheit to Celsius

CALL convert\_temperature(25, 'C'); -- Convert 25 Celsius to Fahrenheit



4.

DELIMITER //

CREATE PROCEDURE convert\_inches\_to\_yards\_feet\_inches(IN total\_inches INT)

BEGIN

DECLARE yards INT;

DECLARE feet INT;

DECLARE inches INT;

SET yards = FLOOR(total\_inches / 36);

SET feet = FLOOR((total\_inches % 36) / 12);

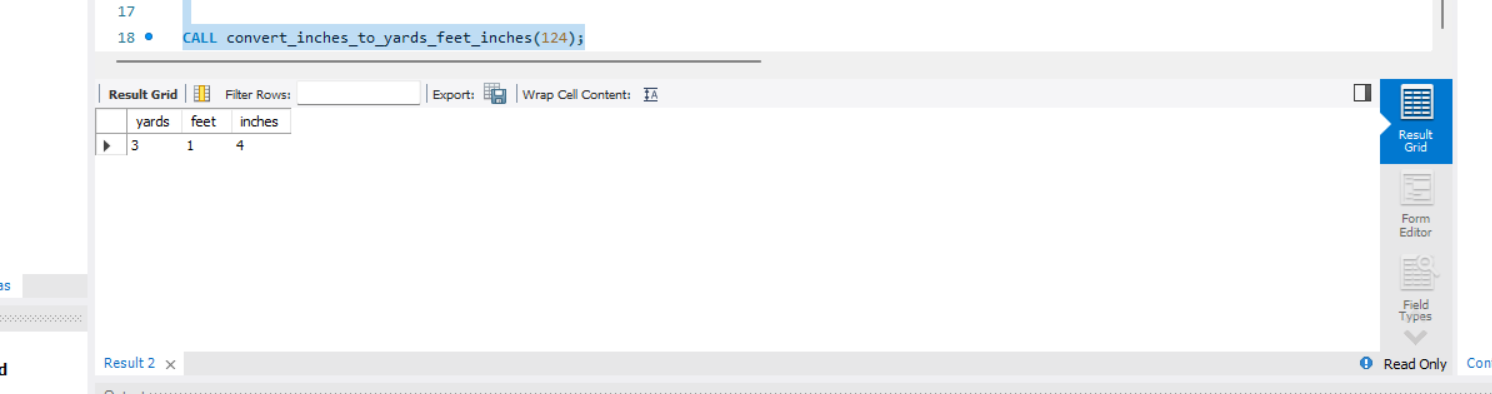
SET inches = total\_inches % 12;

SELECT yards AS yards, feet AS feet, inches AS inches;

END //

DELIMITER ;

CALL convert\_inches\_to\_yards\_feet\_inches(124);



5.

DELIMITER //

CREATE PROCEDURE check\_divisible\_by\_5(IN number INT)

BEGIN

IF number MOD 5 = 0 THEN

SELECT CONCAT(number, ' is divisible by 5.');

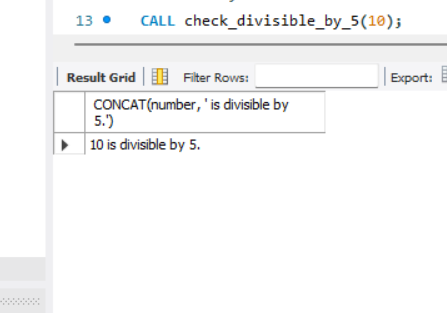
ELSE

SELECT CONCAT(number, ' is not divisible by 5.');

END IF;

END //

DELIMITER ;



6.

DELIMITER //

CREATE PROCEDURE check\_product\_greater\_than\_100(IN num1 DOUBLE, IN num2 DOUBLE)

BEGIN

DECLARE product DOUBLE;

SET product = num1 \* num2;

IF product >= 100 THEN

SELECT CONCAT(num1, ' \* ', num2, ' = ', product, ', which is greater than or equal to 100.');

ELSE

SELECT CONCAT(num1, ' \* ', num2, ' = ', product, ', which is less than 100.');

END IF;

END //

DELIMITER ;

CALL check\_product\_greater\_than\_100(10, 12);

