

DELIMITER //

CREATE PROCEDURE CalculateCircleAreas()

BEGIN

DECLARE radius INT;

DECLARE area DECIMAL(10, 2);

-- Create the 'areas' table if it doesn't exist

CREATE TABLE IF NOT EXISTS areas (

radius INT,

area DECIMAL(10, 2)

);

-- Loop through radii from 5 to 9

SET radius = 5;

WHILE radius ≤ 9 DO

-- Calculate the area for the current radius

SET area = PI() * POW(radius, 2);

-- Insert the radius and area into the 'areas' table

INSERT INTO areas (radius, area) VALUES (radius, area);

-- Increment the radius for the next iteration

SET radius = radius + 1;

END WHILE;

END //

DELIMITER ;

CALL CalculateCircleAreas();

SELECT * FROM areas;

radius	area
5	78.54
6	113.10
7	153.94
8	201.06
9	254.47