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CREATE DATABASE demo;

USE demo;

DELIMITER //

CREATE PROCEDURE fact(IN v_num INT)

BEGIN

DECLARE v_counter INT DEFAULT 1;

DECLARE v_factorial INT DEFAULT 1;

DECLARE err_msg VARCHAR(255);

DECLARE EXIT HANDLER FOR SQLEXCEPTION

BEGIN

SET err_msg = 'An unexpected SQL error occurred!';

SELECT err_msg AS Error;

END;

IF v_num < 0 THEN

SET err_msg = 'Error: Negative numbers are not allowed!';

SELECT err_msg AS Error;

ELSE

WHILE v_counter <= v_num DO

SET v_factorial = v_factorial * v_counter;

SET v_counter = v_counter + 1;

END WHILE;

IF v_factorial > 100 THEN

SELECT CONCAT('The factorial of ', v_num, ' is ', v_factorial, ' (greater than 100)') AS
Result;

ELSE

SELECT CONCAT('The factorial of ', v_num, ' is ', v_factorial) AS Result;

END IF;

END IF;
```

END //

DELIMITER ;

CALL fact(5);

CALL fact(-3);