**Q:- consider a PL/SQL code that accepts 2 numbers & return addition, subtraction,multiplication,division of two numbers using stored functions and local functions.**

**Solution:-**

CREATE OR REPLACE FUNCTION add\_numbers(num1 IN NUMBER, num2 IN NUMBER)

RETURN NUMBER IS

BEGIN

RETURN num1 + num2;

END add\_numbers;

/

CREATE OR REPLACE FUNCTION subtract\_numbers(num1 IN NUMBER, num2 IN NUMBER)

RETURN NUMBER IS

BEGIN

RETURN num1 - num2;

END subtract\_numbers;

/

CREATE OR REPLACE FUNCTION multiply\_numbers(num1 IN NUMBER, num2 IN NUMBER)

RETURN NUMBER IS

BEGIN

RETURN num1 \* num2;

END multiply\_numbers;

/

CREATE OR REPLACE FUNCTION divide\_numbers(num1 IN NUMBER, num2 IN NUMBER)

RETURN NUMBER IS

BEGIN

IF num2 = 0 THEN

RETURN NULL;

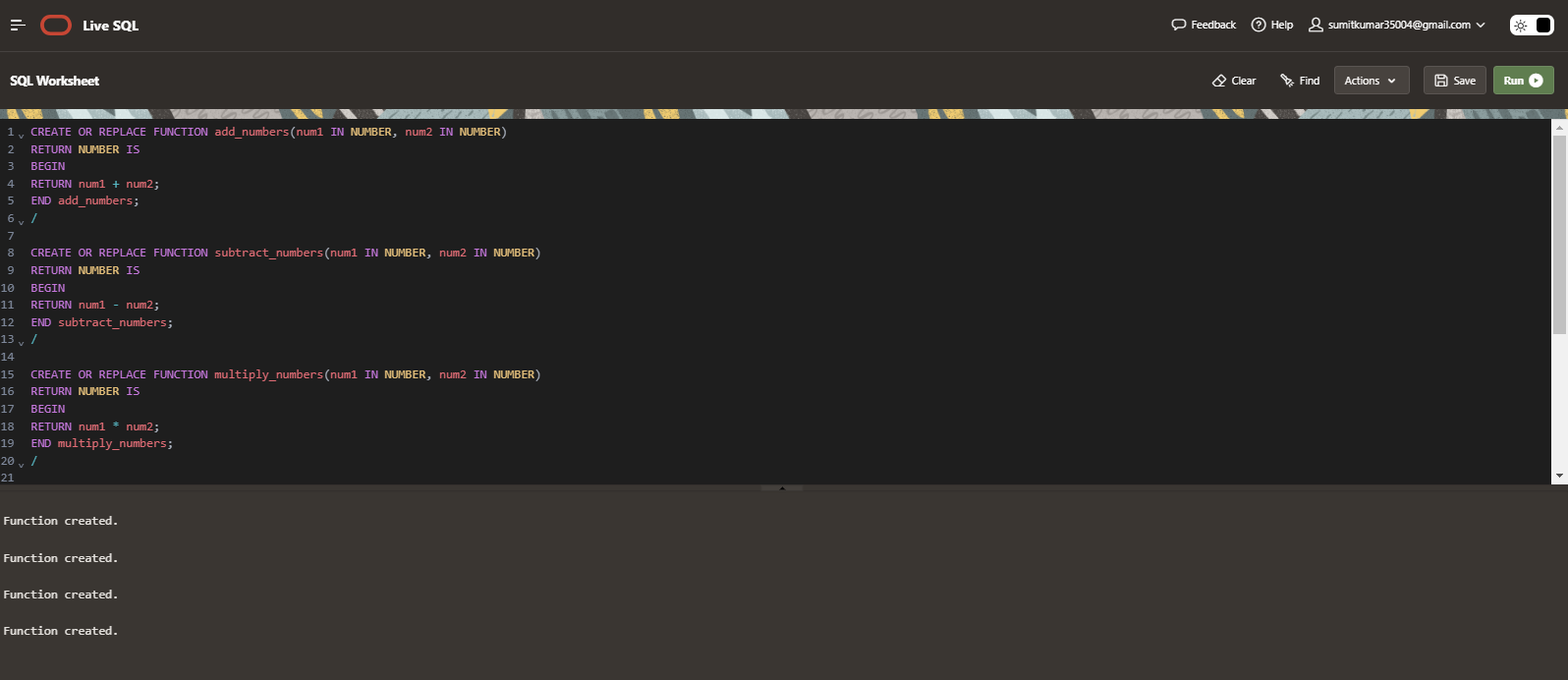
ELSE

RETURN num1 / num2;

END IF;

END divide\_numbers;

/



CREATE OR REPLACE PROCEDURE perform\_operations(

num1 IN NUMBER,

num2 IN NUMBER) IS

FUNCTION local\_add(n1 IN NUMBER, n2 IN NUMBER) RETURN NUMBER IS

BEGIN

RETURN n1 + n2;

END local\_add;

FUNCTION local\_subtract(n1 IN NUMBER, n2 IN NUMBER) RETURN NUMBER IS

BEGIN

RETURN n1 - n2;

END local\_subtract;

FUNCTION local\_multiply(n1 IN NUMBER, n2 IN NUMBER) RETURN NUMBER IS

BEGIN

RETURN n1 \* n2;

END local\_multiply;

FUNCTION local\_divide(n1 IN NUMBER, n2 IN NUMBER) RETURN NUMBER IS

BEGIN

IF n2 = 0 THEN

RETURN NULL;

ELSE

RETURN n1 / n2;

END IF;

END local\_divide;

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Addition (Local): ' || local\_add(num1,num2));

DBMS\_OUTPUT.PUT\_LINE('Subtraction (Local): ' || local\_subtract(num1,num2));

DBMS\_OUTPUT.PUT\_LINE('Multiplication (Local): ' || local\_multiply(num1,num2));

DBMS\_OUTPUT.PUT\_LINE('Division (Local): ' || local\_divide(num1,num2));

DBMS\_OUTPUT.PUT\_LINE('Addition (Stored): ' || add\_numbers(num1,num2));

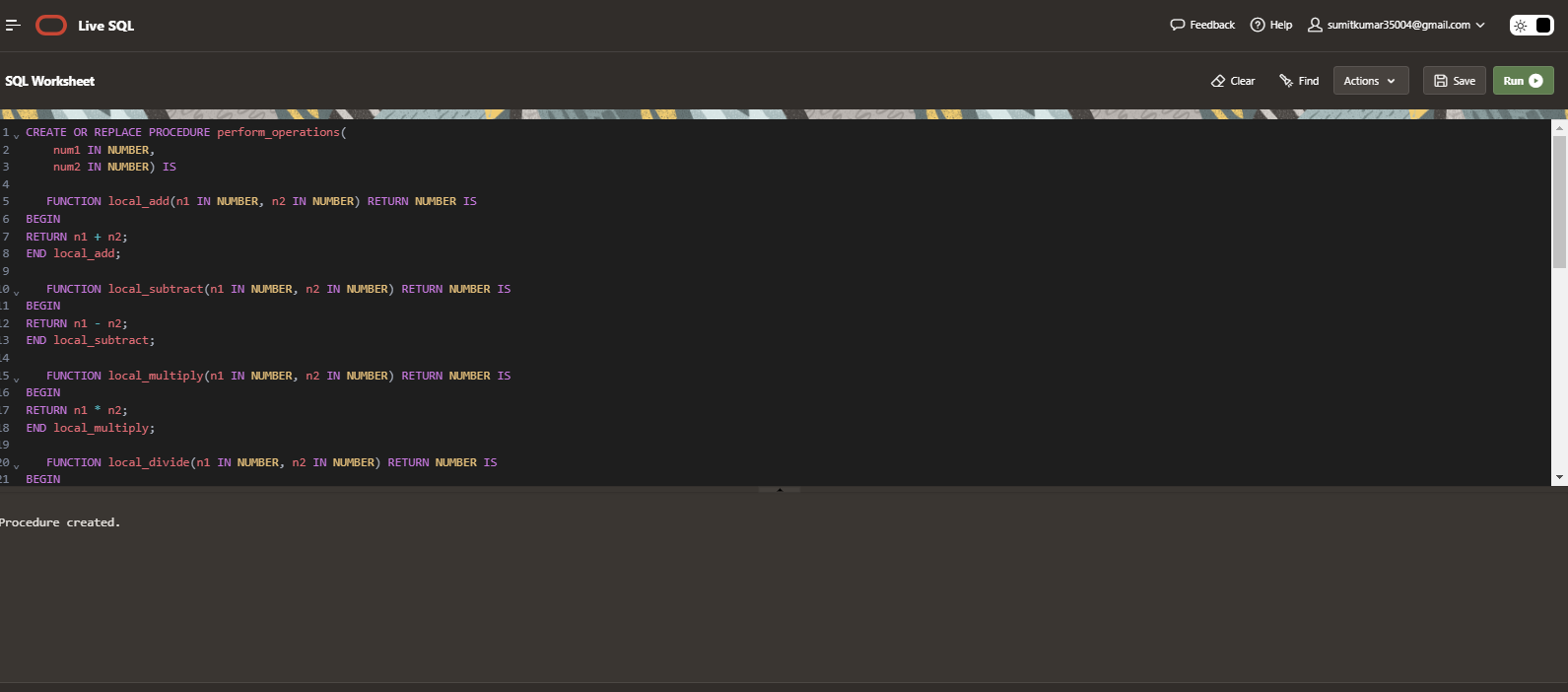
DBMS\_OUTPUT.PUT\_LINE('Subtraction (Stored): ' || subtract\_numbers(num1,num2));

DBMS\_OUTPUT.PUT\_LINE('Multiplication (Stored): ' || multiply\_numbers(num1,num2));

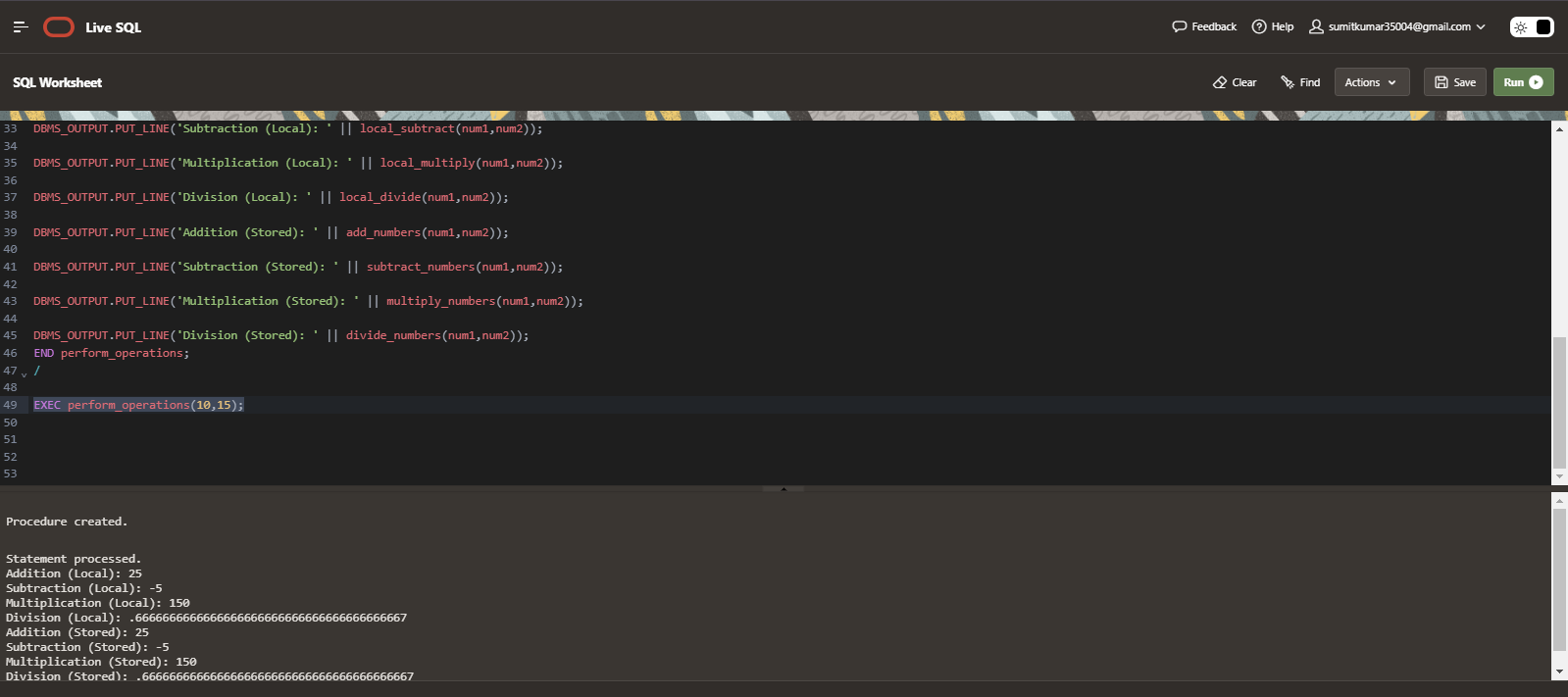
DBMS\_OUTPUT.PUT\_LINE('Division (Stored): ' || divide\_numbers(num1,num2));

END perform\_operations;

/



**EXEC perform\_operations(10,15);**

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