**Assignment DAY 10**

1. Write a function to Calculate the total stock value for a given category:

(Stock value=ROUND(SUM(unit\_price \* units\_in\_stock)::DECIMAL, 2)

Return data type is DECIMAL(10,2)

Create Function

CREATE OR REPLACE FUNCTION get\_total\_stock\_value(category\_id\_param SMALLINT)

RETURNS DECIMAL(10,2)

LANGUAGE plpgsql

AS $$

DECLARE total\_stock\_value DECIMAL(10,2);

BEGIN

SELECT ROUND(SUM(unit\_price \* units\_in\_stock)::DECIMAL(10,2), 2)

INTO total\_stock\_value

from products p

WHERE

p.category\_id = category\_id\_param;

RETURN total\_stock\_value;

END;

$$;

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Execute the function

SELECT get\_total\_stock\_value(1::SMALLINT) AS total\_stock\_value

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2. Try writing a cursor query which I executed in the training.

CREATE OR REPLACE PROCEDURE price\_update\_cursor()

LANGUAGE plpgsql

As $$

DECLARE

product\_cursor CURSOR FOR

SELECT product\_id,product\_name,unit\_price,units\_in\_stock FROM products WHERE discontinued = 0;

product\_record RECORD;

v\_new\_price Decimal(10,2);

BEGIN

OPEN product\_cursor;

LOOP

FETCH product\_cursor INTO product\_record;

EXIT WHEN NOT FOUND;

v\_new\_price:=product\_record.unit\_price\*0.95;

UPDATE products

SET unit\_price = ROUND(v\_new\_price,2)

WHERE product\_id = product\_record.product\_id;

RAISE NOTICE 'Updated % price from % to % ',

product\_record.product\_name,v\_new\_price,product\_record.unit\_price;

END LOOP;

CLOSE product\_cursor;

END;

$$;

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Execute the cursor

CALL price\_update\_cursor()

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