-----\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*------

-- 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)\*/

QUERY:

CREATE OR REPLACE FUNCTION get\_category\_stock\_value(p\_category\_id INT)

RETURNS DECIMAL(10,2)

--LANGUAGE plpgsql

AS $$

DECLARE

stock\_value DECIMAL(10,2);

BEGIN

--Validate category exists

IF NOT EXISTS (SELECT 1 FROM categories WHERE category\_id = p\_category\_id) THEN

RAISE EXCEPTION 'Category ID % does not exist', p\_category\_id;

RETURN 0;

END IF;

SELECT

COALESCE (ROUND(SUM(unit\_price \* units\_in\_stock)::DECIMAL, 2),0.00)

INTO stock\_value

FROM products

WHERE category\_id = p\_category\_id;

RETURN stock\_value;

-- RETURN COALESCE(stock\_value, 0.00);

END;

$$ LANGUAGE plpgsql;

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--check

SELECT get\_category\_stock\_value(1) AS stock\_value;

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

CREATE OR REPLACE PROCEDURE calc\_customer\_order\_value()

LANGUAGE plpgsql

AS $$

DECLARE

cur\_customer CURSOR FOR

SELECT customer\_id, company\_name FROM customers;

rec RECORD;

total\_order\_value DECIMAL(10,2);

BEGIN

OPEN cur\_customer;

LOOP

FETCH cur\_customer INTO rec;

EXIT WHEN NOT FOUND;

SELECT ROUND(SUM(od.unit\_price \* od.quantity \* (1 - od.discount))::NUMERIC, 2)

INTO total\_order\_value

FROM orders o

JOIN order\_details od ON o.order\_id = od.order\_id

WHERE o.customer\_id = rec.customer\_id;

RAISE NOTICE 'Customer: %, Total Order Value: %',

rec.company\_name, COALESCE(total\_order\_value, 0);

END LOOP;

CLOSE cur\_customer;

END;

$$;

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CALL calc\_customer\_order\_value();

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