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 or replace function total\_stock\_value(category int)

returns DECIMAL(10,2)

language plpgsql

as

$$

declare

stock\_value integer;

begin

select ROUND(SUM(unit\_price \* units\_in\_stock)::DECIMAL, 2) into stock\_value from products where category\_id = category

group by category\_id;

return stock\_value;

end;

$$;

select total\_stock\_value(4);

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

CREATE OR REPLACE FUNCTION fetch\_product\_unit\_price(

OUT p\_name VARCHAR(50),

OUT p\_unit\_price REAL

)

RETURNS SETOF RECORD AS

$$

DECLARE

product\_cursor CURSOR FOR

SELECT product\_name, unit\_price

FROM products;

product\_record RECORD;

BEGIN

-- Open cursor

OPEN product\_cursor;

-- Fetch rows and return

LOOP

FETCH NEXT FROM product\_cursor INTO product\_record;

EXIT WHEN NOT FOUND;

p\_name = product\_record.product\_name;

p\_unit\_price = product\_record.unit\_price;

RETURN NEXT;

END LOOP;

-- Close cursor

CLOSE product\_cursor;

END;

$$

LANGUAGE PLPGSQL;

SELECT \* FROM fetch\_product\_unit\_price();

SELECT \* FROM PRODUCTS;