CREATE TABLE customer(customer\_id INT PRIMARY KEY,customer\_name VARCHAR(50),gender VARCHAR(50),age INT,zip\_code INT,city VARCHAR(150),state VARCHAR(200),country VARCHAR(200)

);

COPY customer FROM 'C:\Users\Aswat\Downloads\shopping\customers.csv' DELIMITER ',' CSV HEADER;

CREATE TABLE orders(order\_id INT PRIMARY KEY,customer\_id INT ,payment NUMERIC(10,2),order\_date date, delivery\_date date ,FOREIGN KEY (customer\_id)REFERENCES customer(customer\_id)

);

COPY orders FROM 'C:\Users\Aswat\Downloads\shopping\orders.csv' DELIMITER ',' CSV HEADER;

CREATE TABLE product(product\_ID INT PRIMARY KEY,product\_type VARCHAR(20),product\_name VARCHAR(50),size CHAR(10),colour VARCHAR(20),price NUMERIC(10,2),quantity INT

);

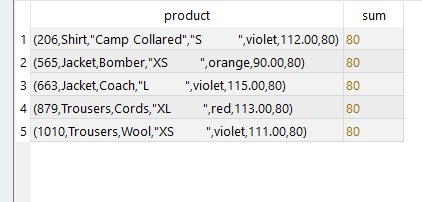
COPY product FROM 'C:\Users\Aswat\Downloads\shopping\products.csv' DELIMITER ','CSV HEADER;

CREATE TABLE sales(sales\_id INT PRIMARY KEY,order\_id INT,product\_id INT,price\_per\_unit NUMERIC(10,2),quantity INT,total\_price NUMERIC(10,2)

);

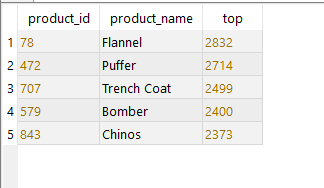
COPY sales FROM 'C:\Users\Aswat\Downloads\shopping\sales.csv' DELIMITER ','CSV HEADER;

--Top-5-selling products

SELECT product,SUM(quantity) FROM "public"."product" GROUP BY product ORDER BY SUM(quantity) DESC LIMIT 5;

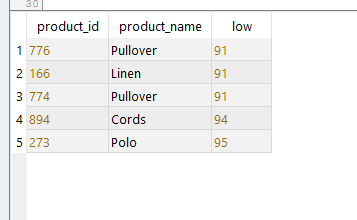
--Highest Revenue-Generating Products

SELECT p.product\_id,p.product\_name,SUM(s.total\_price) AS top FROM "public"."product" AS P JOIN "public"."sales" AS s ON p.product\_id=s.product\_id GROUP BY p.product\_id,p.product\_name ORDER BY top DESC LIMIT 5;

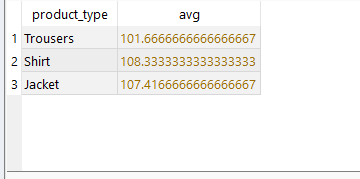


--Products with Lowest Revenue

SELECT p.product\_id,p.product\_name,SUM(s.total\_price) AS low FROM "public"."product" AS P JOIN "public"."sales" AS s ON p.product\_id=s.product\_id GROUP BY p.product\_id,p.product\_name ORDER BY low ASC LIMIT 5;



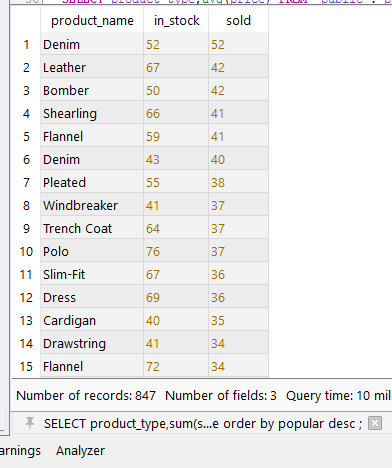
--Average Price per Product Type

SELECT product\_type,avg(price) FROM "public"."product" GROUP BY product\_type;

--Inventory vs. Sales

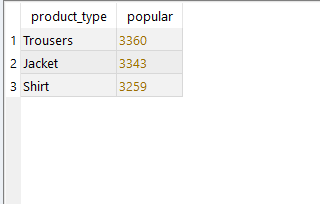
SELECT p.product\_name, p.quantity AS in\_stock, COALESCE(SUM(s.quantity), 0) AS sold

FROM product p LEFT JOIN sales s ON p.product\_id = s.product\_id GROUP BY p.product\_name, p.quantity ORDER BY sold DESC;



--Most Popular Product Type

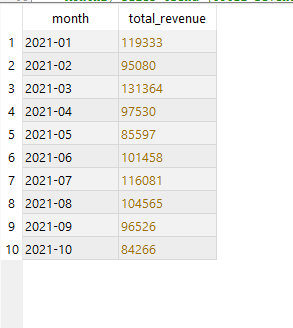
SELECT product\_type,sum(s.quantity) AS popular FROM "public"."product" JOIN sales AS s USING(product\_id)GROUP BY product\_type ORDER BY popular DESC ;



-- Monthly sales trend (total revenue)

SELECT TO\_CHAR(o.order\_date, 'YYYY-MM') AS MONTH,SUM(s.total\_price) AS total\_revenue FROM sales s JOIN orders o ON s.order\_id = o.order\_id

GROUP BY TO\_CHAR(o.order\_date, 'YYYY-MM') ORDER BY MONTH;



-- View for City-Wise Sales Performance (Total Revenue)

CREATE VIEW city\_sales\_performance AS

SELECT

c.city,

SUM(s.total\_price) AS total\_revenue

FROM sales s

JOIN orders o ON s.order\_id = o.order\_id

JOIN customer c ON o.customer\_id = c.customer\_id

GROUP BY c.city;

SELECT \* FROM city\_sales\_performance;

