-- Create the database

CREATE DATABASE IF NOT EXISTS fetch\_data;

USE fetch\_data;

-- Create the Users table

CREATE TABLE IF NOT EXISTS Users (

ID VARCHAR(255) PRIMARY KEY,

CREATED\_DATE datetime,

BIRTH\_DATE datetime,

STATE VARCHAR(255),

LANGUAGE VARCHAR(255),

GENDER VARCHAR(255)

);

-- Create the Products table

CREATE TABLE IF NOT EXISTS Products (

CATEGORY\_1 VARCHAR(255),

CATEGORY\_2 VARCHAR(255),

CATEGORY\_3 VARCHAR(255),

MANUFACTURER VARCHAR(255),

BRAND VARCHAR(255),

BARCODE BIGINT

);

-- Create the Transactions table

CREATE TABLE IF NOT EXISTS Transactions (

RECEIPT\_ID VARCHAR(255),

PURCHASE\_DATE datetime,

SCAN\_DATE datetime,

STORE\_NAME VARCHAR(255),

USER\_ID VARCHAR(255),

BARCODE BIGINT,

FINAL\_QUANTITY DECIMAL(10, 2),

FINAL\_SALE DECIMAL(10, 2)

);

-- Top 5 Brands by Receipts Scanned Among Users 21 and Over

WITH Eligible\_Users AS (

SELECT ID

FROM users

WHERE TIMESTAMPDIFF(YEAR, BIRTH\_DATE, CURDATE()) >= 21

),

Receipts\_Count AS (

SELECT

p.BRAND,

COUNT(DISTINCT t.RECEIPT\_ID) AS Receipt\_Count

FROM transactions t

JOIN products p ON t.BARCODE = p.BARCODE

WHERE t.USER\_ID IN (SELECT ID FROM Eligible\_Users)

GROUP BY p.BRAND

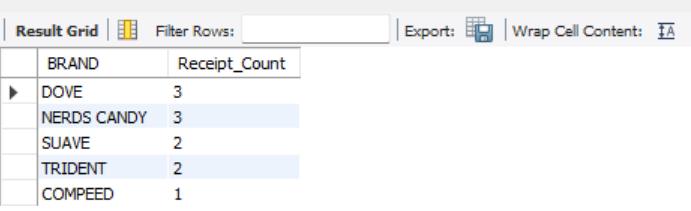
)

SELECT BRAND, Receipt\_Count

FROM Receipts\_Count

ORDER BY Receipt\_Count DESC

LIMIT 5;



-- Top 5 Brands by Sales Among Users That Have Had Their Account for At Least Six Months

WITH Eligible\_Users AS (

SELECT ID

FROM users

WHERE CREATED\_DATE <= DATE\_SUB(CURDATE(), INTERVAL 6 MONTH)

),

Brand\_Sales AS (

SELECT

p.BRAND,

SUM(t.FINAL\_SALE) AS Total\_Sales

FROM transactions t

JOIN products p ON t.BARCODE = p.BARCODE

WHERE t.USER\_ID IN (SELECT ID FROM Eligible\_Users)

GROUP BY p.BRAND

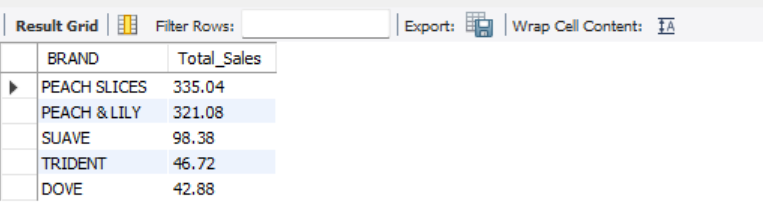
)

SELECT BRAND, Total\_Sales

FROM Brand\_Sales

ORDER BY Total\_Sales DESC

LIMIT 5;



-- Who are Fetch’s Power Users?

SELECT

u.ID AS User\_ID,

COUNT(DISTINCT t.RECEIPT\_ID) AS Total\_Receipts,

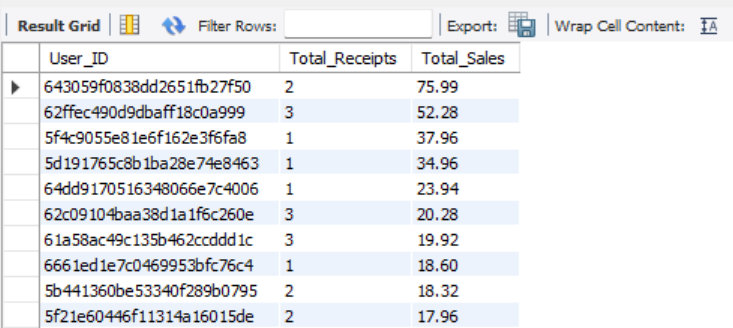
SUM(t.FINAL\_SALE) AS Total\_Sales

FROM transactions t

JOIN users u ON t.USER\_ID = u.ID

GROUP BY u.ID

ORDER BY Total\_Sales DESC, Total\_Receipts DESC;



-- Which is the Leading Brand in the Dips & Salsa Category?

SELECT

p.BRAND,

SUM(t.FINAL\_SALE) AS Total\_Sales

FROM transactions t

JOIN products p ON t.BARCODE = p.BARCODE

WHERE p.CATEGORY\_2 = 'Dips & Salsa'

GROUP BY p.BRAND

ORDER BY Total\_Sales DESC

LIMIT 1;

