Retail Sales - SQL P1

Creating database

```
show databases;
use sql_project1;
```

Creating table

```
-- Create Table

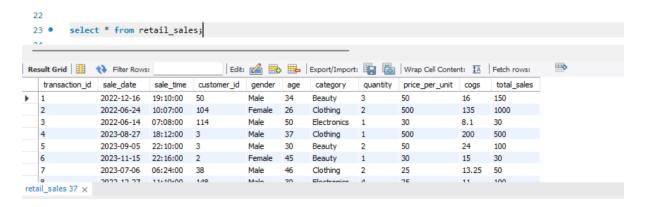
○ create table retail_sales(
    transaction_id int primary key,
    sale_date date,
    sale_time time,
    customer_id int,
    gender varchar(10),
    age int,
    category varchar(50),
    quantity int,
    price_per_unit int,
    cogs float,
    total_sales int
);
```

Insert data to the table

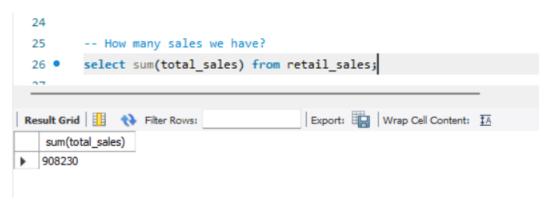
```
-- To import data
```

Go to Tables -> right click -> Table data import wizard -> file path -> use existing table -> next and finish

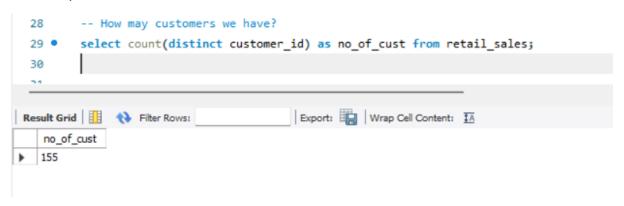
Data Exploration



How Many sales we have



How many Customers we have?

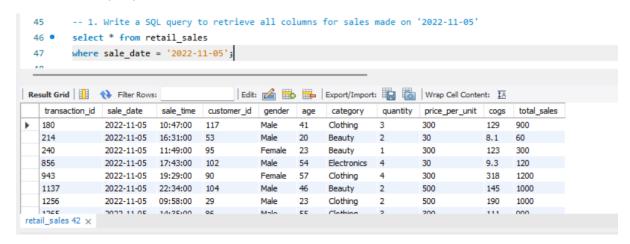


Check for null values

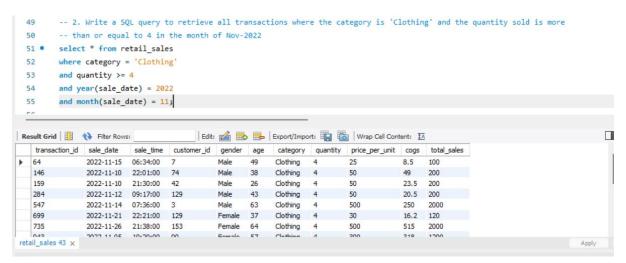
```
32
       -- Check for null values
 33 • select * from retail_sales
 34
       where transaction_id is null
 35
          or sale_date is null
          or sale_time is null
 36
           or customer_id is null
 37
          or gender is null
 38
          or age is null
 39
           or price_per_unit is null
 40
        or total_sales is null;
 41
 42
                       | Edit: 🕍 誌 | Export/Import: 请 🔯 | Wrap Cell Content: 🏗
transaction_id sale_date sale_time customer_id gender age category quantity price_per_unit cogs total_sales
```

Data Analysis & Problems & Answers

1. Write a SQL query to retrieve all columns for sales made on '2022-11-05'.



2. Write a SQL query to retrieve all transactions where the category is 'Clothing' and the quantity sold is more than 10 in the month of Nov-2022.

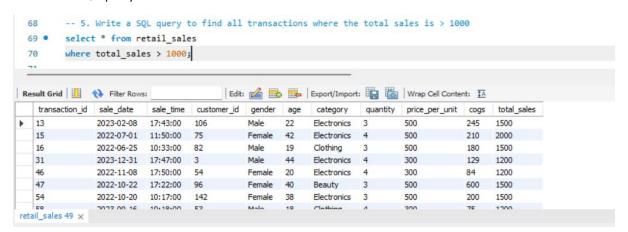


3. Write a SQL guery to calculate total sales for each category.

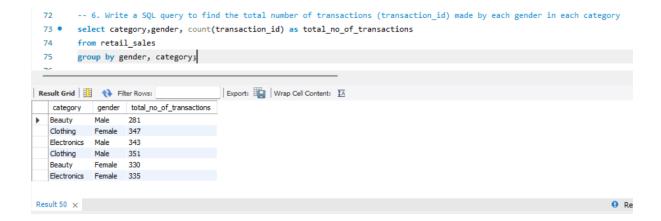
```
-- 3. Write a SQL query to calculate total sales for each category
 57
         select category, sum(total sales) as sales by category
         from retail sales
 59
         group by category;
 60
 61
Result Grid Filter Rows:
                                           Export: Wrap Cell Content: $\frac{1}{4}
   category sales_by_category
             286790
  Beauty
   Clothing
             309995
  Electronics 311445
```

4. Write a SQL query to find the average age of customers who purchase items from the 'Beauty' category.

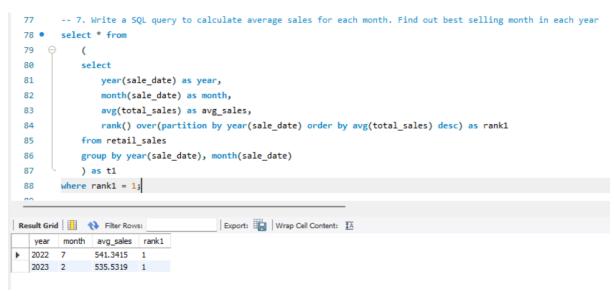
5. Write a SQL guery to find all transactions where the total sales is > 1000.



6. Write a SQL query to find the total number of transactions (transaction_id) made by each gender in each category.



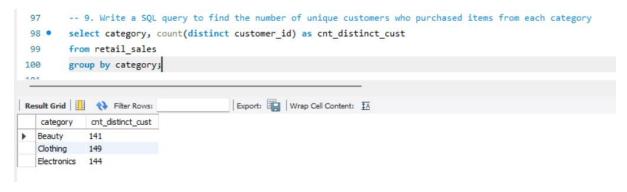
7. Write a SQL query to calculate average sales for each month. Find out bestselling month in each year.



8. Write a SQL query to find the top 5 customers based on the highest total sales.

```
-- 8. Write a SQL query to find the top 5 customers based on the highest total sales
90
91 •
        select customer_id, sum(total_sales) as total_sales
92
        from retail_sales
93
        group by customer_id
        order by total sales desc
95
        limit 5;
                                     Export: Wrap Cell Content: 🔼 Fetch rows:
customer_id total_sales
  3
            38440
            30750
  1
            30405
  5
  2
            25295
            23580
```

9. Write a SQL query to find the number of unique customers who purchased items from each category.



10. Write a SQL query to create each shift and number of orders (Example - Morning<=12, Afternoon between 12 & 17, Evening > 17).

