Individual Project 4
DS160-02
Introduction to Data Science
Fall 2023

Writing SQL Queries (50 points)

Goal: This project aims to write several different SQL queries to extract data from a database.

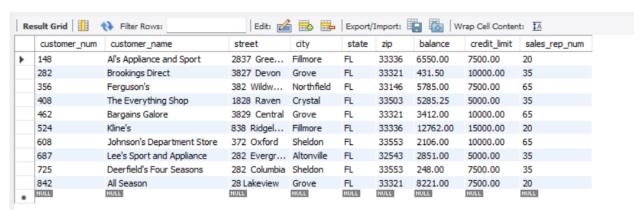
Instructions: For this project, create an .sql script titled **IP4_XXX.sql**, where **XXX** are your initials. Also create a GitHub repository titled **IP4_XXX** to which you can push your code. Write and execute the following queries. **Add the snippet of the output in this document and submit it with the sql script**.

The dataset contains five tables: Customer, order line, orders, part, sales rep. Note down all of the primary keys.

1. Print all rows and columns of the dataset.

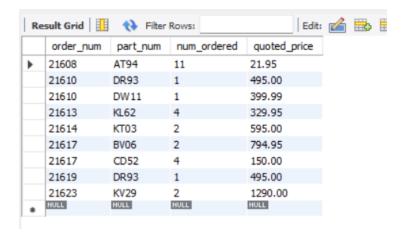
```
1 • USE premier_products;
2 • SELECT * FROM customer;
3 • SELECT * FROM order_line;
4 • SELECT * FROM orders;
5 • SELECT * FROM part;
6 • SELECT * FROM sales_rep;
```

Costumer



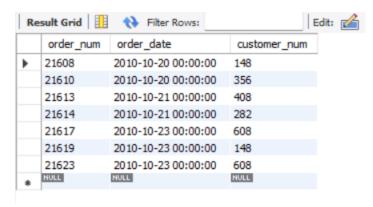
Primary Key: costumer_num

Order line



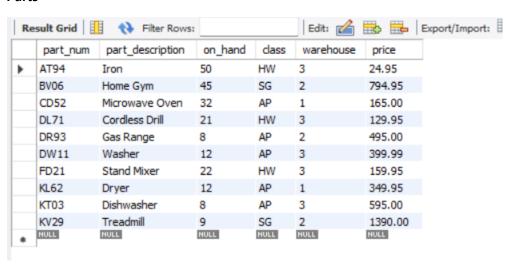
Primary Key: order_num & part_num

Orders



Primary Key: order_num

Parts



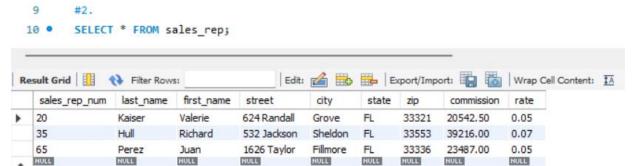
Primary Key: part_num

Sales_rep

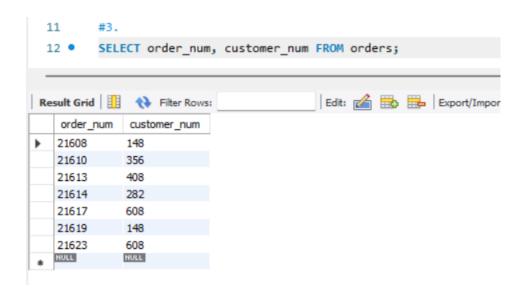


Primary Key: sales_rep_num

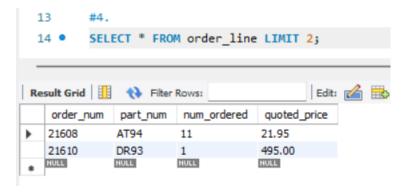
2. All rows, last name, first name, sales rep number, city from sales rep table



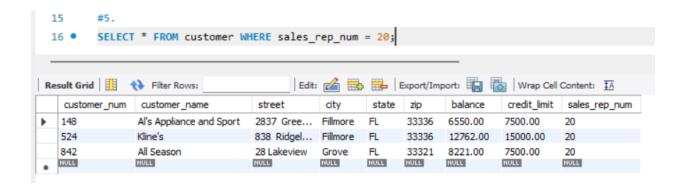
3. Select order and customer number from orders.



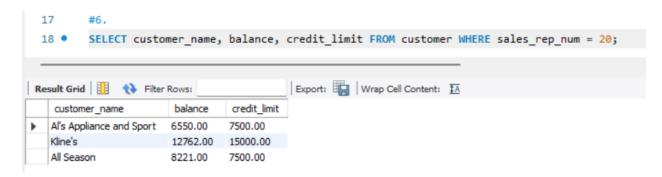
4. Select only two rows from order line.



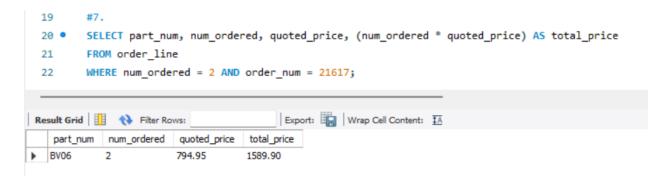
5. Select all of the entries from customer where sales rep num=20



6. Select only customer name, balance, credit limit from customer where sales rep num=20

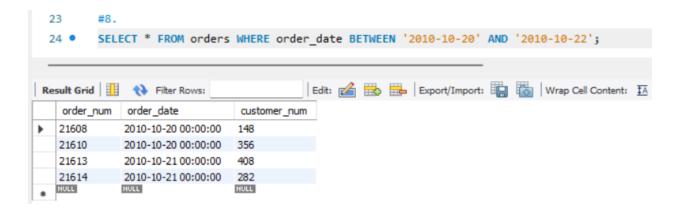


7. Select part num, num ordered, quoted price and total price where total price is (num_ordered * quoted price) where only 1 num ordered and the order number is 21617.

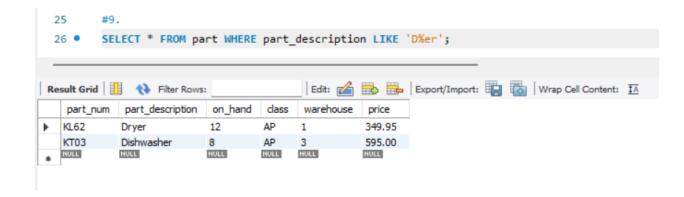


Num_ordered = 2 not 1

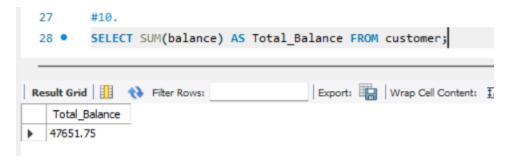
8. Show all the orders from order date between '2010-10-20' and '2010-10-22.'



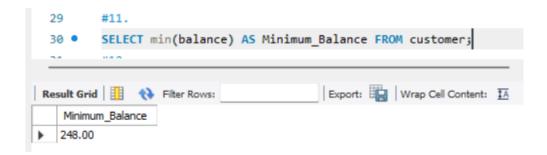
9. List all of parts where the part description starts with 'D' and end with 'er'



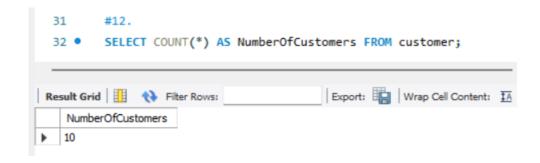
10. Show total balance from customer.



11. Show minimum balance from customer.



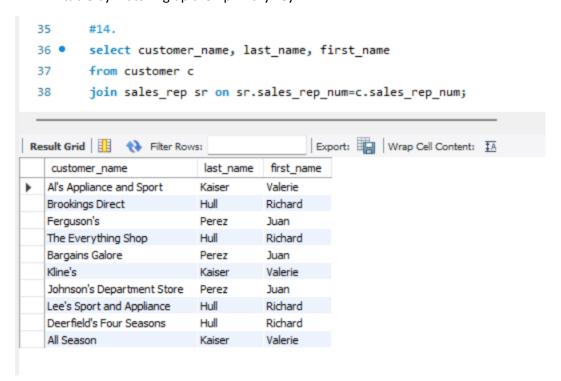
12. Count number of customers in customer table



13. Select order number where the quote price is more than 500 but less than 1000.



14. Create a new table of customer name, last name, and first name from customer and sales rep table by matching up their primary key.



Project Submission: Upload a link to your GitHub repository for the project in the area provided in Moodle by the deadline specified.