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.

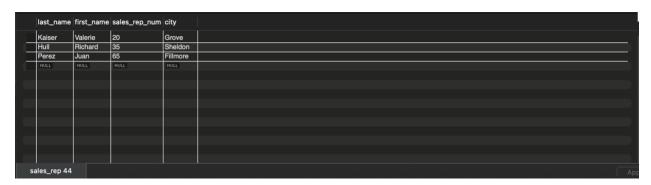
Instructions: For this project, create an .sql script titled **IP4_XXX.sql**, where **XXX** are your initials. Also create a GitHub repository titled **IP4_XXX** to which you can push your code. Write and execute the following queries. **Add the snippet of the output in this document and submit it with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

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

Print all rows and columns of the dataset



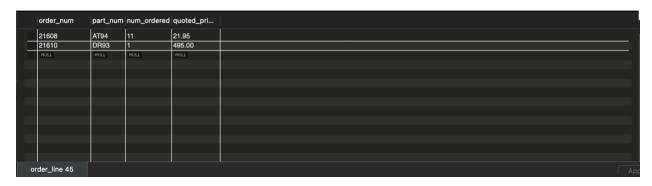
2. All rows, last name, first name, sales rep number, city from sales rep table



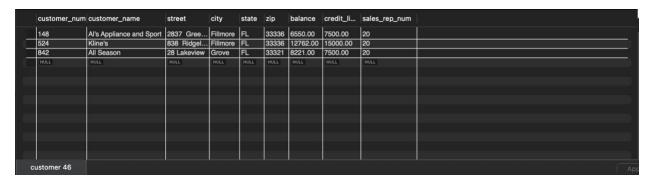
3. Select order and customer number from orders

| | order_num | customer_num | |
|---|-----------|--------------|--|
| | 21608 | 148 | |
| | | 356 | |
| _ | | 408 | |
| | 21614 | 282 | |
| | | 608 | |
| | | 148 | |
| | 21623 | 608 | |
| | NULL | NULL | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | orders 42 | | |

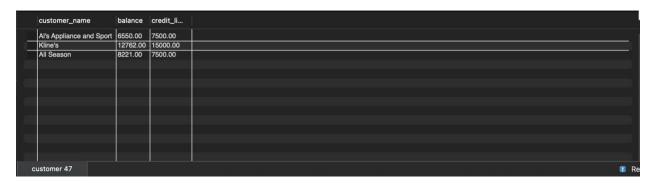
4. Select only two rows from order line



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



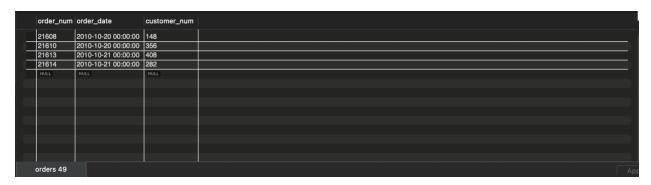
6. Select only customer name, balance, credit limit from customer where sales rep num=20



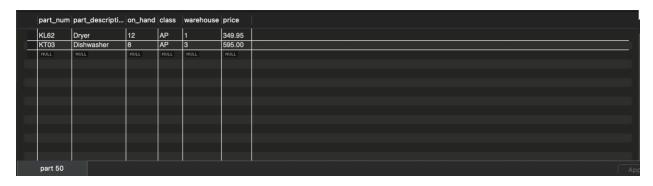
7. Select part num, num ordered, quoted price and total price where total price is (num_ordered * quoted_price) where only 1 num ordered and the order number is 21617



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.