DATA 201
Database Technologies
for Data Analytics

Spring 2025
Section 21
Instructor: Ron Mak

Assignment #3b

Assigned: Thursday, February 6
Due: Thursday, February 13 at 5:30 pm
             Individual assignment, 70 points max

SQL practice #1

Create the ZAGI Retail Company Sales Department database named `zagi_sales` on your <u>local machine</u> and load its data by importing `ZAGIsales.sql`

In a Jupyter notebook, connect to the `zagi_sales` database and write the Python-embedded SQL code to solve each of the following problems. Display each result in a <u>dataframe</u>.

1. Display the vendor ID and vendor name for all vendors.

2. Display the customer name and customer ZIP for all customers.

3. Display the product ID, product name, and product price for products with a product price of $100 or higher.

4. Display the product ID, product name, product price, and vendor name for all products. Sort the results by product ID.

5. Display the product ID, product name, product price, vendor name, and category name for all products. Sort the results by product ID.

6. Display the product ID, product name, and product price for products in the category whose category name value is Camping. Sort the results by product ID.

7. Display the transaction ID, customer name, and transaction date for sales transactions involving a customer buying a product whose product name is Dura Boot.

What to submit

Submit your notebook including all the output cells.

TIP: Before submitting, do **Run ➔ Restart Kernel and Run All Cells** and then save**.**

Rubric

Criteria	Max points
• Problem 1	• 10
• Problem 2	• 10
• Problem 3	• 10
• Problem 4	• 10
• Problem 5	• 10
• Problem 6	• 10
• Problem 7	• 10