INST327 - Database Design and Modeling
Assignment 1 - Questions

There are 2 questions in this assignment.

Note: Use the database specified in each question for this assignment.

Question 1. (50 points) - Information on Customers in the Mid-Atlantic

Using the *om* database, develop a query that lists information about customers in the Mid-Atlantic states/districts, including Delaware, Maryland, New Jersey, New York, Pennsylvania, Virginia, West Virginia, and the District of Columbia. The results should be sorted first by state, then within each state by the customer's last name and first name.

According to data in the *om* database, some of these states currently have no customers. However, your query should be written to account for future changes to the *om* database, including possible additions of customers from those states.

The result set returned by your query should match the sample output shown below, including all data, formatting, column headers, and order. The query should return six result rows.

Customer	Address	Phone Number
Damion, Mikayla	2021 K Street Nw, Washington, DC 20006	2025555561
Story, Kirsten	2401 Wisconsin Ave NW, Washington, DC 20559	2065559115
Rohansen, Anders	12345 E 67th Ave NW, Takoma Park, MD 24512	3385556772
Keeton, Gonzalo	12 Daniel Road, Fairfield, NJ 07004	2015559742
Javen, Justin	828 S Broadway, Tarrytown, NY 10591	8005550037
Millerton, Johnathon	60 Madison Ave, New York, NY 10010	2125554800

(6 rows returned)

Your query will be assessed and graded based on both the result set it produces and its structure. Hence, not all queries that produce the result set above may receive full points. For example, if your query is too complex, or if it includes structures or keywords that are disallowed per the Instructions document accompanying this Questions document, you may lose points. For details, please refer to the Instructions and Rubric documents accompanying this Questions document.

Question 2. (50 points) - Information on Invoices that have a substantial balance due

Using the *ap* database, develop a query that lists specific information for orders with a balance due of more than $100. In this context, "Balance Due" means the remaining amount after subtracting the payment and credit totals from the invoice amount for the given invoice. Sort the results by balance due from largest to smallest amount.

The result set returned by your query should match the sample output shown below, including all data, formatting, column headers, and order. The query should return five rows of results.

Invoice Number	Invoice Date	Invoice Due Date	Balance Due
P-0608	2022-07-23	2022-08-22	$19351.18
0-2436	2022-07-31	2022-08-30	$10976.06
31361833	2022-07-21	2022-08-10	$579.42
9982771	2022-07-24	2022-08-23	$503.20
547480102	2022-08-01	2022-08-31	$224.00

(5 rows returned)

Your query will be assessed and graded based on both the result set it produces and its structure. Hence, not all queries that produce the result set above may receive full points. For example, if your query is too complex, or if it includes structures or keywords that are disallowed per the Instructions document accompanying this Questions document, you may lose points. For details, please refer to the Instructions and Rubric documents accompanying this Questions document.