Use the Customers, Salespeople, and Orders datasets used in the class to solve the following:

For each of the following, your code should be for data frame as well as Spark SQL.

1. Find all the customers and salespeople who share a city (i.e. have common city).

2. Find which customer is served by which salesperson. Display the customer name and salesperson name for all matching cases.

3. Display all the order numbers along with the name of the customer who placed that order.

4. Find how many orders have been brought by each salesperson. Display the salesperson number, name, and the number of orders in the descending sequence of orders.

5. For every salesperson, find out the maximum order amount for each date.