



## MARCIA'S DRY CLEANING

Marcia's Dry Cleaning is an upscale dry cleaner in a well-to-do suburban neighborhood. Marcia makes her business stand out from the competition by providing superior customer service. She wants to keep track of each of her customers and their orders. Ultimately, she wants to notify them that their clothes are ready via e-mail. To provide this service, she has developed an initial database with several tables. Three of those tables are the following:

CUSTOMER (Phone, FirstName, LastName, Email)

INVOICE (Number, DateIn, DateOut, TotalAmt, Phone)

INVOICE\_ITEM (Number, Item, Quantity, UnitPrice)

### Code SQL statements to produce the following information:

- A Show all data in each of the tables.
- B List the Phone and LastName of all customers.
- C List the Phone and LastName for all customers with a FirstName of 'Nikki'.
- D List the Phone, DateIn, and DateOut of all orders in excess of 100.
- E List the Phone and FirstName of all customers whose first name starts with 'B'.
- F List the Phone and FirstName of all customers whose last name includes the characters 'cat'.
- G List the Phone, FirstName, and LastName for all customers whose second and third numbers of their phone number are 23.
- H Determine the maximum and minimum TotalAmts.
- I Determine the average TotalAmt.
- J Count the number of customers.
- K Group customers by LastName and then by FirstName.
- L Count the number of customers having each combination of LastName and FirstName.
- M Show the FirstName and LastName of all customers who have had an order with TotalAmt greater than 100. Use a subquery. Present the results sorted by LastName in ascending order and then FirstName in descending order.
- N Show the FirstName and LastName of all customers who have had an order with TotalAmt greater than 100. Use a join. Present results sorted by LastName in ascending order and then FirstName in descending order.
- O Show the FirstName and LastName, of all customers who have had an order with an Item named 'Dress Shirt'. Use a subquery. Present results sorted by LastName in ascending order and then FirstName in descending order.

- P Show the FirstName and LastName of all customers who have had an order with an Item named 'Dress Shirt'. Use a join. Present results sorted by LastName in ascending order and then FirstName in descending order.
- Q Show the FirstName, LastName, and TotalAmt of all customers who have had an order with an Item named 'Dress Shirt'. Use a join with a subquery. Present results sorted by LastName in ascending order and then FirstName in descending order.