# View exercises

Use the Salespeople/Customers/Orders tables to create the appropriate views. Determine if the views are updateable or not. Justify your response.

1. Create a view that shows all of the customers who have the highest rating.
2. Create a view that shows the number of salespeople in each city.
3. Create a view that shows the average and total orders for each salesperson after his or her name.
4. Create a view that shows each salesperson with multiple customers.
5. Which of these views are updateable? Explain.
   1. CREATE VIEW Dailyorders AS  
      SELECT DISTINCT cnum, snum, onum, odate  
      FROM Orders;
   2. CREATE VIEW Custtotals AS  
      SELECT cname, SUM(amt)  
      FROM Orders o, Customers c  
      WHERE o.cnum = c.cnum  
      GROUP BY cname;
   3. CREATE VIEW Thirdorders AS  
      SELECT \*  
      FROM Dailyorders  
      WHERE odate = TO\_DATE('10/03/2000', 'MM/DD/YYYY');
   4. CREATE VIEW LondonCustomers AS  
      SELECT cnum, cname, rating  
      FROM customers  
      WHERE city = 'London';
   5. CREATE VIEW CustOrders AS  
      SELECT o.cnum, c.cname, o.onum, o.odate, o.amt  
      FROM Customers c JOIN Orders o ON c.cnum = o.cnum;
6. Create a view of the Salespeople table called Commissions. This view will only include the snum and comm columns. Only display those values where the comm is in the range of 0.10 to 0.20. Through this view, someone could enter or change commissions, but any updates to the data must keep the commission in the given range.
7. Experiment with the following. Create the two given views. With the “WITH CHECK OPTION” applied to the HighOct3Orders view, is one able to make changes through the HighOct3Orders view to modify the date?
   1. CREATE VIEW Oct3Orders AS  
      SELECT onum, odate, amt, cnum, snum  
      FROM orders  
      WHERE odate = TO\_DATE('10/03/2000', 'MM/DD/YYYY');
   2. CREATE VIEW HighOct3Orders AS  
      SELECT onum, odate, amt, cnum, snum  
      FROM Oct3Orders  
      WHERE amt >= 1000.00  
      WITH CHECK OPTION;