Queries

**Easy**

1. List all the columns of the Salespeople table.

2. List all customers with a rating of 100.

3. Find all records in the Customer table with NULL values in the city column.

5. Arrange the Orders table by descending customer number.

12. Find the largest order taken by each salesperson.

13. Find customers in San Jose who have a rating above 200.

14. List the names and commissions of all salespeople in London.

15. List all the orders of salesperson Motika from the Orders table.

22. Give the salespeople’s commissions as percentages instead of decimal numbers.

26. Select all customers with a rating above 200.00.

27. Count the number of salespeople currently listing orders in the Orders table.

31. Find all salespeople whose name starts with ‘P’ and the fourth character is ‘l’.

32. Write a query that uses a subquery to obtain all orders for the customer named Cisneros.

Assume you do not know his customer number.

34. Extract the Salespeople table in the following order : SNUM, SNAME, COMMISSION, CITY.

35. Select all customers whose names fall in between ‘A’ and ‘G’ alphabetical range.

40. Write a select command that produces the rating followed by the name of each customer in

San Jose.

46. Write a query that produces all pairs of salespeople with themselves as well as duplicate rows

with the order reversed.

47. Find all salespeople that are located in either Barcelona or London.

48. Find all salespeople with only one customer.

50. Write a query that will give you all orders for more than $1000.0

51. Write a query that lists each order number followed by the name of the customer who made

that order.

58. Find all rows from the Customers table for which the salesperson number is 1001.

60. Write a query that selects all orders with zeroes or NULLs in the amount field.

61. Produce all combinations of salespeople and customer names such that the former precedes

the latter alphabetically, and the latter has a rating of less than 200.

62. List all Salespeople’s names and the Commission they have earned.

63. Write a query that produces the names and cities of all customers with the same rating as

Hoffman. Write the query using Hoffman’s CNUM rather than his rating, so that it would still be

usable if his rating changed.

64. Find all salespeople for whom there are customers that follow them in alphabetical order.

66. Find the SUM of all purchases from the Orders table.

67. Write a SELECT command that produces the order number, amount and date for all rows in

the order table.

68. Count the number of non NULL rating fields in the Customers table (including repeats).

69. Write a query that gives the names of both the salesperson and the customer for each order

after the order number.

70. List the commissions of all salespeople servicing customers in London.

82. Write a query that lists customers in descending order of rating. Output the rating field first,

followed by the customer’s names and numbers.

83. Find the average commission for salespeople in London.

85. Find all salespeople whose commission is in between 0.10 and 0.12 (both inclusive).

86. Write a query that will give you the names and cities of all salespeople in London with a

commission above 0.10.

89. Write a query that selects the first customer in alphabetical order whose name begins with G.

90. Write a query that counts the number of different nonNULL city values in the Customers table.

91. Find the average amount from the Orders table.

102.List all customers in descending order of customer rating.

103.On which days has Hoffman placed orders?

104.Do all salespeople have different commissions?

106.How many salespersons have succeeded in getting orders?

107.How many customers have placed orders?

**Intermediate**

4. Find the largest order taken by each salesperson on each date.

6. Find which salespeople currently have orders in the Orders table.

7. List names of all customers matched with the salespeople serving them.

8. Find the names and numbers of all salespeople who had more than one customer.

9. Count the orders of each of the salespeople and output the results in descending order.

11. Match salespeople to customers according to what city they lived in.

16. Find all customers with orders on October 3.

19. Write a query that uses the EXISTS operator to extract all salespeople who have customers

with a rating of 300.

20. Find all pairs of customers having the same rating.

21. Find all customers whose CNUM is 1000 above the SNUM of Serres.

24. List the largest orders for October 3, for each salesperson.

29. Find salespeople who have multiple customers.

30. Find salespeople with customers located in their city.

33. Find the largest orders for Serres and Rifkin.

36. Select all the possible combinations of customers that you can assign.

39. Write a query that totals the orders for each day and places the results in descending order.

41. Find all orders with amounts smaller than any amount for a customer in San Jose.

42. Find all orders with above average amounts for their customers.

43. Write a query that selects the highest rating in each city.

44. Write a query that calculates the amount of the salesperson’s commission on each order by a

customer with a rating above 100.00.

53. Write a query that selects all customers whose ratings are equal to or greater than ANY (in the

SQL sense) of Serres’?

54. Write 2 queries that will produce all orders taken on October 3 or October 4.

55. Write a query that produces all pairs of orders by a given customer. Name that customer and

eliminate duplicates.

56. Find only those customers whose ratings are higher than every customer in Rome.

57. Write a query on the Customers table whose output will exclude all customers with a rating <=

100.00, unless they are located in Rome.

71. Write a query using ANY or ALL that will find all salespeople who have no customers located in

their city.

72. Write a query using the EXISTS operator that selects all salespeople with customers located in

their cities who are not assigned to them.

73. Write a query that selects all customers serviced by Peel or Motika. (Hint : The SNUM field

relates the two tables to one another.)

74. Count the number of salespeople registering orders for each day. (If a salesperson has more

than one order on a given day, he or she should be counted only once.)

75. Find all orders attributed to salespeople in London.

76. Find all orders by customers not located in the same cities as their salespeople.

77. Find all salespeople who have customers with more than one current order.

79. Write a query that selects all customers whose names begin with ‘C’.

80. Write a query on the Customers table that will find the highest rating in each city. Put the output

in this form : for the city (city) the highest rating is : (rating).

81. Write a query that will produce the SNUM values of all salespeople with orders currently in the

Orders table (without any repeats).

84. Find all orders credited to the same salesperson who services Hoffman (CNUM 2001).

88. Write a query that selects each customer’s smallest order.

93. Find all customers who are not located in San Jose and whose rating is above 200.

94. Give a simpler way to write this query :

SELECT snum, sname city, comm FROM salespeople

WHERE (comm > + 0.12 OR comm < 0.14);

96. Which salespersons attend to customers not in the city they have been assigned to?

97. Which salespeople get commission greater than 0.11 are serving customers rated less than

250?

99. Which salesperson has earned the most by way of commission?

100.Does the customer who has placed the maximum number of orders have the maximum rating? ///Doubt////

101.Has the customer who has spent the largest amount of money been given the highest rating?

105.Which salespeople have no orders between 10/03/1996 and 10/05/1996?

108.On which date has each salesperson booked an order of maximum value?

109.Who is the most successful salesperson?

110.Who is the worst customer with respect to the company?

111.Are all customers not having placed orders greater than 200 totally been serviced by

salespersons Peel or Serres?

112.Which customers have the same rating?

117.Give names and numbers of all salespersons who have more than one customer.

119.Which customers’ rating should be lowered? //doubt

120.Is there a case for assigning a salesperson to Berlin?

124.Which salesperson(s) should be fired?

125.What is the total income for the company?

**Difficult**

10. List the Customer table if and only if one or more of the customers in the Customer table are

located in San Jose.

17. Give the sums of the amounts from the Orders table, grouped by date, eliminating all those

dates where the SUM was not at least 2000.00 above the MAX amount.

18. Select all orders that had amounts that were greater than at least one of the orders from

October 6.

23. Find the largest order taken by each salesperson on each date, eliminating those MAX orders

which are less than $3000.00 in value.

25. Find all customers located in cities where Serres (SNUM 1002) has customers.

28. Write a query that produces all customers serviced by salespeople with a commission above

12%. Output the customer’s name and the salesperson’s rate of commission.

37. Select all orders that are greater than the average for October 4.

38. Write a select command using a corelated subquery that selects the names and numbers of all

customers with ratings equal to the maximum for their city.

45. Count the customers with ratings above San Jose’s average.

49. Write a query that joins the Customer table to itself to find all pairs of customers served by a

single salesperson.

52. Write 2 queries that select all salespeople (by name and number) who have customers in their

cities who they do not service, one using a join and one a corelated subquery. Which solution

is more elegant?

59. Find the total amount in Orders for each salesperson for whom this total is greater than the

amount of the largest order in the table.

65. Write a query that produces the names and ratings of all customers who have above

average orders.

78. Write a query that extracts from the Customers table every customer assigned to a

salesperson who currently has at least one other customer (besides the customer being

selected) with orders in the Orders table.

98. Which salespeople have been assigned to the same city but get different commission

percentages?

113.Find all orders greater than the average for October 4th.

114.Which customers have above average orders?

115.List all customers with ratings above San Jose’s average.

116.Select the total amount in orders for each salesperson for whom the total is greater than the

amount of the largest order in the table.

118.Select all salespersons by name and number who have customers in their city whom they

don’t service.

121.Is there any evidence linking the performance of a salesperson to the commission that he or

she is being paid?

122.Does the total amount in orders by customer in Rome and London exceed the commission

paid to salespersons in London and New York by more than 5 times?

123.Which is the date, order number, amt and city for each salesperson (by name) for the

maximum order he has obtained?