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DATABASE TECHNOLOGY

Write the queries to do the following :-

Note : To solve below queries use “ hr ” database

1. Display employees where the first name or last name starts with S.

2. Display first name and last name after converting the first letter of each name to upper case and the rest to lower case.

3. Display the first word in job title.

4. Display the length of first name for employees where last name contain character ‘b’ after 3rd position.

5. Display first name in upper case and email address in lower case for employees where the first name and email address are same irrespective of the case.

6. Display first name, salary, and round the salary to thousands.

7. Display manager ID and number of employees managed by the manager.

8. Display employee ID and the date on which he ended his previous job.

9. Display the country ID and number of cities we have in the country.

10. Display average salary of employees in each department who have commission percentage.

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11. Display job ID, number of employees, sum of salary, and difference between highest salary and lowest salary of the employees of the job.

12. Display job ID for jobs with average salary more than 10000.

13. Display years in which more than 10 employees joined.

14. Display departments in which more than five employees have commission percentage.

15. Display employee ID for employees who did more than one job in the past.

16. Display job ID of jobs that were done by more than 3 employees for more than 100 days.

17. Display department ID, year, and Number of employees joined.

18. Display departments where any manager is managing more than 5 employees.

19. Display first name and date of first salary of the employees.

20. Display first name and experience of the employees.

21. Display first name of employees who joined in 2001.

22. Display employees who joined in the current year.

23. Display the number of days between system date and 1st January 2011.

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24. Display how many employees joined in each month of the current year.

25. Display number of employees joined after 15th of the month.

26. Display details of departments in which the maximum salary is more than 10000.

27. Display details of departments managed by ‘Smith’.

28. Display jobs into which employees joined in the current year.

29. Display employees who did not do any job in the past.

30. Display job title and average salary for employees who did a job in the past.

31. Display details of manager who manages more than 5 employees.

32. Display the departments into which no employee joined in last two years.

33. Display the details of departments in which the max salary is greater than 10000 for employees who did a job in the past.

34. Display details of current job for employees who worked as IT Programmers in the past.

35. Display third highest salary of all employees

36. Display details of the employees where commission percentage is null and salary in the range 5000 to 10000 and department is 30.

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Note : To solve below queries use “spj” database

1. Display all the Part names starting with the letter ‘S’.

2. Display all the Suppliers, belonging to cities starting with the letter ‘L’.

3. Display all the Projects, with the third letter in JNAME as ‘n’.

4. Display all the Supplier names with the initial letter capital.

5. Display all the Supplier names in upper case.

6. Display all the Supplier names in lower case.

7. Display all the Supplier names padded to 25 characters, with spaces on the left.

8. Display all the Supplier names (with ‘la’ replaced by ‘ro’).
HINT: REPLACE.
9. Implement the above command such that ‘l’ is replaced with ‘r’ and ‘a’ is replaced with ‘o’.

10. Display the Supplier names and the lengths of the names.

11. Use the soundex function to search for a supplier by the name of ‘BLOKE’.

12. Display the Supplier name and the status (as Ten, Twenty, Thirty, etc.).

13. Display the current day (e.g. Thursday).

14. Display the minimum Status in the Supplier table.

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15. Display the maximum Weight in the Parts table.

16. Display the average Weight of the Parts.

17. Display the total Quantity sold for part ‘P1’.

18. Display the total Quantity sold for each part.

19. Display the average Quantity sold for each part.

20. Display the maximum Quantity sold for each part, provided the maximum Quantity is greater than 800.

21. Display the Status and the count of Suppliers with that Status.

22. Display the count of Projects going on in different cities.

23. What is the difference between COUNT(Status) and COUNT(*) ?

24. Display the Status and the Count of Suppliers with that Status in the following formatas shown below:-

Status	Count
Ten	1
Twenty	2
Thirty	3

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Note : To solve below queries use “sales” database

1. Write two different queries that would produce all orders taken on October 3 rd or 4 th , 1990.

2. Write a query that selects all of the customers serviced by Peel or Motika. (Hint:the snum field relates the two tables to one another).

3. Write a query that will produce all the customers whose names begin with a letter from ‘A’ to ‘G’.

4. Write a query that selects all customers whose names begin with the letter ‘C’.

5. Write a query that selects all orders except those with zeroes or NULLs in the amt field.

6. Write a query that counts all orders for October 3.

7. Write a query that counts the number of different non-NULL city values in the Customers table.

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

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

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

11. Write a query that counts the number of salespeople registering orders for eachday. (If a salesperson has more than one order on a given day, he or she should be counted only once.).

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12. Assume each salesperson has a 12% commission. Write a query on the orders table that will produce the order number, the salesperson number, and the amount of the salesperson’s commission for that order.

13. 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).

14. Write a query that lists customers in descending order of rating. Output the rating field first, followed by the customer’s name and number.

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

16. Write a query that uses a subquery to obtain all orders for the customer named Cisneros. Assume you do not know his customer number (cnum).

17. Write a query that produces the names and ratings of all customers who have above-average orders.

18. Write a query that selects the total amount in orders for each salesperson for whomthis total is greater than the amount of the largest order in the table.

19. Write a query that selects all customers whose ratings are equal to or greater than ANY of Serres’.

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

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21. Write a query that selects all orders for amounts greater than any for the customers in London.

22. Write the above query using MIN or MAX.

23. Count the number of salespeople currently listing orders in the oreder table.

24. Largest order taken by each salesperson with order value more than Rs.3000.

25. Which day had the highest total amount ordered.

26. Count all orders for Oct 3.

27. Select each customer smallest order.

28. First customer in alphabetical order whose name begin with G.

29. Get the output like “For dd/mm/yy there are _____ orders”.

30. Extract all the orders of Motika.

31. All orders that are greater than the average for Oct 4.

32. Find avarage commission of salespeople in London.

33. Find all the order attribute to salespeople servicing customers in London.

34. Obtain all orders for the customer named Cisnerous.(Assume you dont know his customer no. (cnum)).

35. Find total amount in orders for each salesperson for whom this total is greater than the amount of the largest order in the table.

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36. Find names and numbers of all salesperson who have more than one customer.

37. Extract cnum ,cname and city from customer table if and only if one or more of the customers in the table are located in San Jose.

38. Find salespeople number who have multiple customers.

39. Find salespeople number,name and city who have multiple customers.

40. Find salespeople who serve only one customer.

41. Extract rows of all the salespeople with more than one current order.

42. Select customers who have a greater rating than any other customer in Rome.

43. Select all orders that had amounts that were greater that atleast one of the orders fron Oct 6th .

44. Find all orders with amounts smaller than any amount for a customer in San Jose.(Both using ANY and without any).

45. Select those customers whose rating are higher than every customer in Paris.

46. Select all customers whose ratings are equal to or greater than any of the Serres.

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