Database Technologies – Assignment 4

Note: To solve below queries use "sales" database
Use appropriate SQL functions to solve following queries.

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

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

3. Find average commission of salespeople in London.

4. 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.

Note: To solve below queries use "spj" database
Use appropriate SQL functions to solve following queries.

5. Display all the Suppliers, belonging to cities starting with the letter 'L'.

6. Display all the Projects, with the third letter in JNAME as 'n'.

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

8. Display all the Supplier names in upper case.

9. Display all the Supplier names in lower case.

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

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

12. Display the minimum Status in the Supplier table.

13. Display the maximum Weight in the Parts table.

14. Display the average Weight of the Parts.

15. Display the total Quantity sold for part 'P1'.

16. Display all the Supplier names (with 'la' replaced by 'ro').

17. Implement the above command such that 'l' is replaced with 'r' and 'a' is replaced with 'o'.

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Note: To solve below queries use "sales" database

***Use Group by clause with appropriate sql functions to solve following queries.**

1. 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).

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

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

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

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

Note: To solve below queries use "hr" database

*** Use Group by clause with appropriate sql functions to solve following queries.**

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

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

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

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

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

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

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

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

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

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

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

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