

## 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.