

## Challenges 1

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### PART-1

1. Create a table Customer with the following columns

CustomerID, CustomerName, ContactName, Address City, PostalCode, Country

2. Each Column contain 5 rows
3. Select all fields from "Customers" where country is "Germany" AND city is "Berlin"
4. Select all fields from "Customers" where city is "Berlin" OR "Stuttgart"
5. Select all fields from "Customers" where country is "Germany" OR "Spain"
6. Select all fields from "Customers" where country is NOT "Germany"

### PART-2

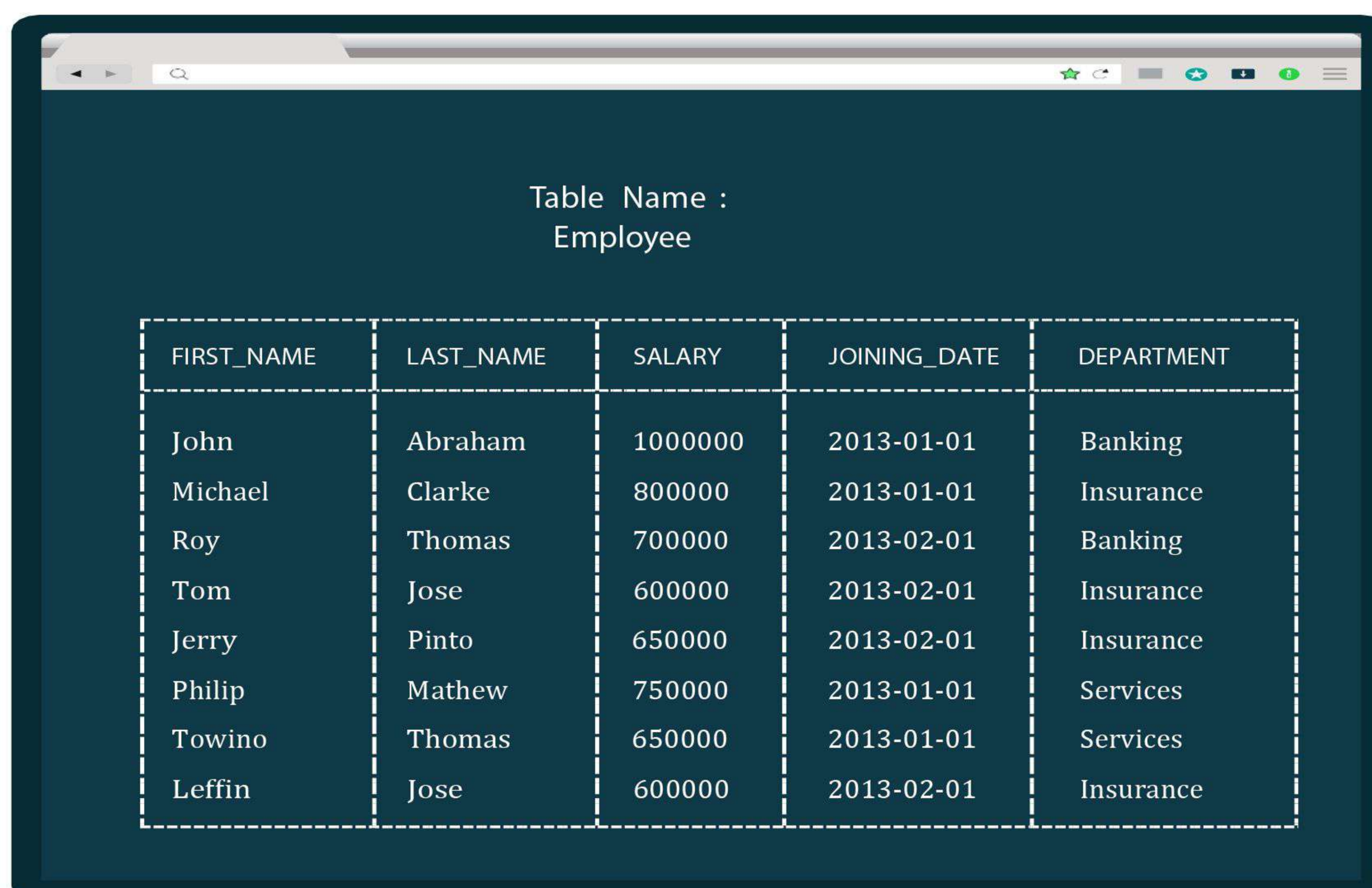


Table Name :  
Employee

FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
John	Abraham	1000000	2013-01-01	Banking
Michael	Clarke	800000	2013-01-01	Insurance
Roy	Thomas	700000	2013-02-01	Banking
Tom	Jose	600000	2013-02-01	Insurance
Jerry	Pinto	650000	2013-02-01	Insurance
Philip	Mathew	750000	2013-01-01	Services
Towino	Thomas	650000	2013-01-01	Services
Leffin	Jose	600000	2013-02-01	Insurance

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- I. Get all employee details from the employee table.
2. Get First\_Name, Last\_Name from employee table.
3. Get First\_Name from employee table in upper case.
4. Get First\_Name from employee table in lower case.
5. Get unique DEPARTMENT from employee table.
6. Select first 3 characters of FIRST\_NAME from EMPLOYEE.
7. Get position of 'o' in name 'John' from employee table.
8. Get FIRST\_NAME from employee table after removing white spaces from right side.
9. Get FIRST\_NAME from employee table after removing white spaces from left side.
10. Get length of FIRST\_NAME from employee table.
- II. Get First\_Name from employee table after replacing 'o' with '\$'.
12. Get First\_Name and Last\_Name as single column from employee table separated by a '\_ '.
13. Get FIRST\_NAME, Joining year, Joining Month and Joining Date from employee table.
14. Get all employee details from the employee table order by First\_Name Ascending.
15. Get all employee details from the employee table order by First\_Name descending.
16. Get all employee details from the employee table order by First\_Name Ascending and Salary descending.
17. Get employee details from employee table whose employee name is "John".
18. Get employee details from employee table whose employee name are "John" and "Roy".
19. Get employee details from employee table whose employee name are not "John" and "Roy".
20. Get employee details from employee table whose first name ends with 'n' and name contains 4 letters.
21. Get employee details from employee table whose first name starts with 'J' and name contains 4 letters.

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22. Get employee details from employee table whose Salary greater than 600000.
23. Get employee details from employee table whose Salary less than 800000.
24. Get employee details from employee table whose Salary between 500000 and 800000.
25. Get employee details from employee table whose name is 'John' and 'Michael'.
26. Get employee details from employee table whose joining year is "2013".
27. Get employee details from employee table whose joining month is "January".
28. Get employee details from employee table who joined before January 1st 2013.
29. Get employee details from employee table who joined after January 31st.
30. Get Joining Date and Time from employee table.
31. Get Joining Date, Time including milliseconds from employee table.
32. Get difference between JOINING\_DATE and INCENTIVE\_DATE from employee and incentives table.
33. Get current date..
34. Get names of employees from employee table who has '%' in Last\_Name. Tip :  
Escape character for special characters in a query.
35. Get Last Name from employee table after replacing special character with white space.
36. Get department wise average salary from employee table order by salary ascending.
37. Get department wise maximum salary from employee table order by salary ascending.
38. Get department wise minimum salary from employee table order by salary ascending.
39. Select no of employees joined with respect to year and month from employee table.
40. Select department, total salary with respect to a department from employee table where total salary greater than 800000 order by Total\_Salary descending.
41. Select first\_name, incentive amount from employee and incentives table for those employees who have incentives.

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42. Select first\_name, incentive amount from employee and incentives table for those employees who have incentives and incentive amount greater than 3000.
43. Select first\_name, incentive amount from employee and incentives table for all employees even if they didn't get incentives.
44. Select first\_name, incentive amount from employee and incentives table for all employees even if they didn't get incentives and set incentive amount as 0 for those employees who didn't get incentives.
45. Select first\_name, incentive amount from employee and incentives table for all employees who got incentives using left join.
46. Select max incentive with respect to employee from employee and incentives table using sub query.
47. Select TOP 2 salary from employee table.
48. Select 2nd Highest salary from employee table.
49. Select First\_Name, LAST\_NAME from employee table as separate rows.
50. Select employee details from employee table if data exists in incentive table ?
51. Select 20 % of salary from John , 10% of Salary for Roy and for other 15 % of salary from employee table.
52. Select Banking as 'Bank Dept', Insurance as 'Insurance Dept' and Services as 'Services Dept' from employee table.
53. Delete employee data from employee table who got incentives in incentive table.
54. Insert into employee table Last Name with " ' " (Single Quote - Special Character).
55. Update incentive table where employee name is 'John'

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