

Challenges 1

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

1. Create a table ‘Order’ with the Columns (OrderID, CustomerID, EmployeeID, OrderDate, ShipperID)
2. Create another table “customer” with the columns
(CustomerName, CustomerID, City, Address)
3. Each column contain 5 rows with 2 Common entries of CustomerID
4. Retrieve the order ID and customer name for all orders by performing an inner join between the Orders and Customers tables on the CustomerID field. Display the results.
5. Retrieve the customer names along with their respective order IDs for all customers. Include customers who have not placed any orders as well. Sort the results in alphabetical order based on the customer names.

Note: - This query combines the Customers and Orders tables using a LEFT JOIN to ensure that all customers are included in the result set, regardless of whether they have placed any orders or not. The ON condition specifies that the join should be performed based on the matching CustomerID values) Display the results.

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6. Create another table 'Employee' with the columns (FirstName, LastName, EmployeeID), Each column contain 5 rows with 2 common entries of EmployeeID from 'Order' table
7. Retrieve the OrderID, LastName, and FirstName from the Orders table and the Employees table. Perform a RIGHT JOIN between the two tables based on the matching EmployeeID values. Order the result set by OrderID in ascending order.

Note: This query aims to retrieve the order information along with the corresponding employee's last name and first name. The RIGHT JOIN is used to include all rows from the Employees table and the matching rows from the Orders table based on the EmployeeID field) Display the results.

PART-3



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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1. 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.
11. 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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Challenges 1

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'.

PART-4

Create a graphical user interface (GUI) application using Tkinter for registering student information into a MySQL database. (fields First_Name, Last_Name, Age, Department, Phone_Number, Status)

- 1) Get all students details from the above database
- 2) Select all the students with the age of 20 to 25
- 3) Select all the students whose names start with 's'
- 4) Delete student details who failed on exam

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