Vindhya Meda

SQL QUESTIONNAIRE

1.Select top 10 records from Employee table where Emp\_Sal > 10000

Answer:

SELECT \*

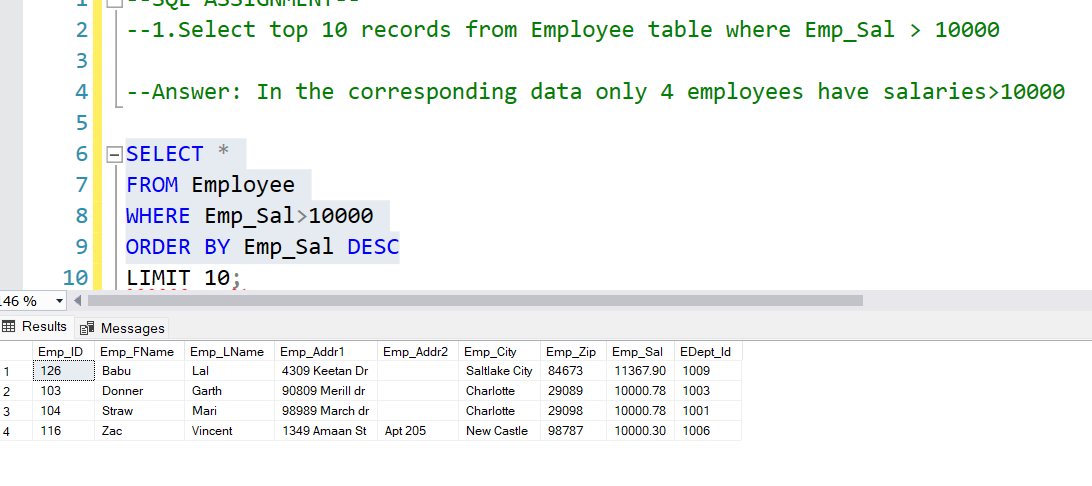
FROM Employee

WHERE Emp\_Sal>10000

ORDER BY Emp\_Sal DESC

LIMIT 10;

DEMO on SQL-



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2.Retrieve Emp\_Id, Emp\_FName, Emp\_Addr1, Emp\_City, Emp\_Zip, Dept\_Name, Dept\_City

From Employee whose Department City is Brentwood. Use Table Alias

Answer:

SELECT E.Emp\_Id, E.Emp\_FName, E.Emp\_Addr1, E.Emp\_City, E.Emp\_Zip, D.Dept\_Name, D.Dept\_City

FROM Employee E

JOIN Department D

ON E.Emp\_Id = D. Emp\_Id

WHERE D.Dept\_City LIKE 'Brentwood';

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3.Retrieve Emp\_ID, Emp\_Fname, Emp\_Zip from Employee who are all working in department HR&Training and Compliance. Use embedded SQL statements

Answer:

SELECT Emp\_ID, Emp\_Fname, Emp\_Zip

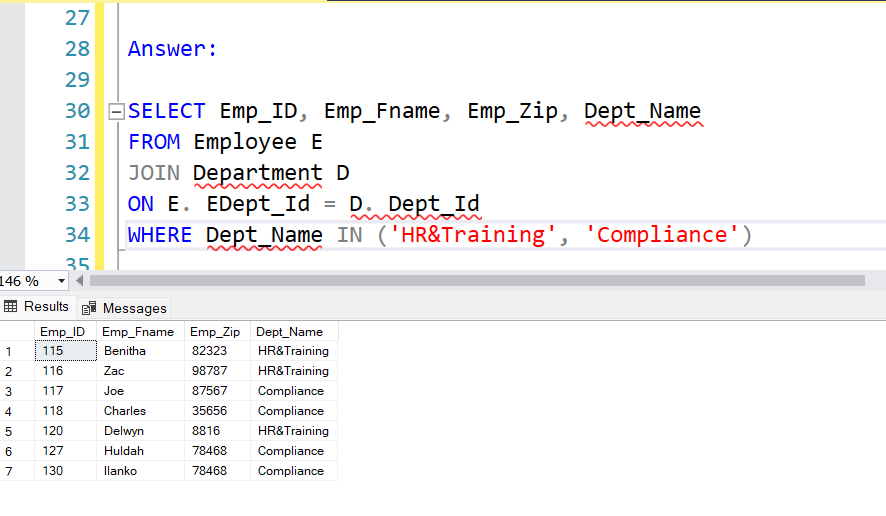
FROM Employee

WHERE Emp\_ID IN

(SELECT Dept\_Name

FROM Department

WHERE Dept\_Name LIKE 'HR&Training', 'Compliance');



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4.Retrieve Sum(Emp\_Sal) and Dept\_Name from Employee and Emp\_Department by Dept\_Name (Group By)

Answer:

SELECT SUM (E.Emp\_Sal) AS Total\_Salary, Dept\_Name

FROM Employee E

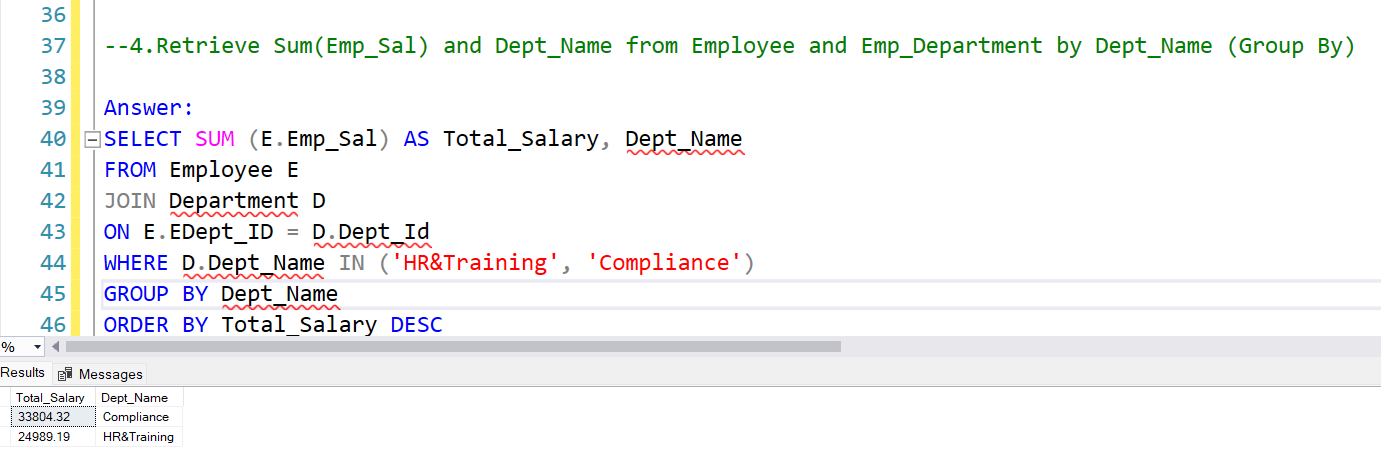
JOIN Department D

ON E.EDept\_ID = D.Dept\_Id

WHERE D.Dept\_Name IN ('HR&Training', 'Compliance')

GROUP BY Dept\_Name

ORDER BY Total\_Salary DESC



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5.Select 2nd highest sal from Employee table

Answer:

SELECT Emp\_Sal

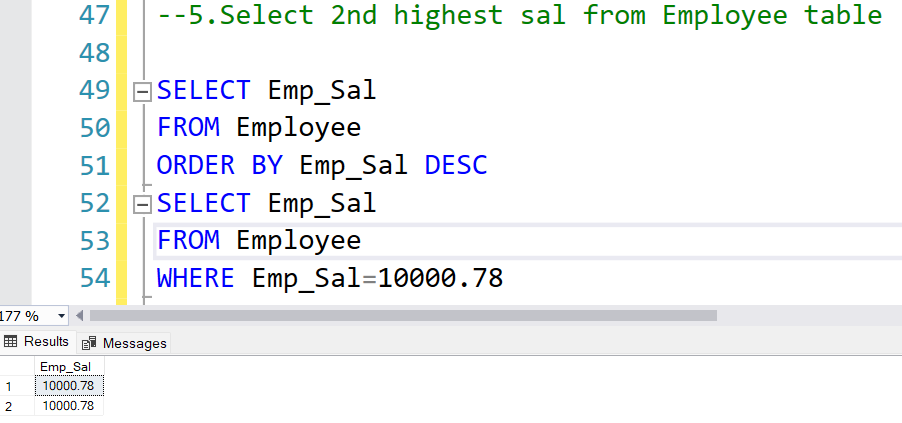
FROM Employee

ORDER BY Emp\_Sal DESC

SELECT Emp\_Sal

FROM Employee

WHERE Emp\_Sal=10000.78



--OR USING MAX

SELECT MAX(Emp\_Sal) AS '2ndhighestSal'

FROM Employee

WHERE Emp\_Sal < (SELECT MAX(Emp\_Sal) AS '1sthighestSal' FROM Employee);

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6. Rename a column Person\_Name to P\_Name in the table Person

Answer:

Exec sp\_rename 'dbo.Person.Person\_Name', 'P\_Name', 'COLUMN';

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7.List down all the SQL constraints

Answer:

PRIMARY KEY

FOREIGN KEY

UNIQUE

NOT NULL

DEFAULT

CHECK

8. Retrieve Emp\_Id, Emp\_FName, Emp\_LName for location Zip\_Code 88160 (use all three Employee tables) Use Embedded sql statements

Answer:

SELECT E.Emp\_Id, E.Emp\_FName, E.Emp\_LName

FROM EmpTable1 E1

JOIN EmpTable2 E2

ON E1.Dept\_ID = E2.Dept\_ID

JOIN EmpTable3 E3

ON E1.Emp\_ID= E3.Emp\_ID

WHERE E1.Zip\_code = 88160;

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9. Write a query using Right Outer join to retrieve the data from Employee and Emp\_Department table

Answer:

SELECT \*

FROM Employee

RIGHT OUTER JOIN Emp\_Department

ON Employee.EDept\_ID = Emp\_Department.Dept\_ID

--Or aliases can also be assigned as below--

SELECT \*

FROM Employee E

RIGHT OUTER JOIN Emp\_Department D

ON E.EDept\_ID = D.Dept\_ID

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29 rows returned

Record for Emp\_ID 129 does not pull up here since this record has NULL values under Dept\_Name, Dept\_City, Dept\_State as seen in question 10 below.

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10. Write a query using Full Outer join to retrieve the data from Employee and Emp\_Department tables

SELECT \*

FROM Employee E

FULL OUTER JOIN Emp\_Department D

ON E.EDept\_ID = D.Dept\_ID

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30 rows returned

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