Assignment-2

Retrieve data using join with where clause

1. write a SQL query to find the salesperson and customer who reside in the same city. Return Salesman, cust_name and city.

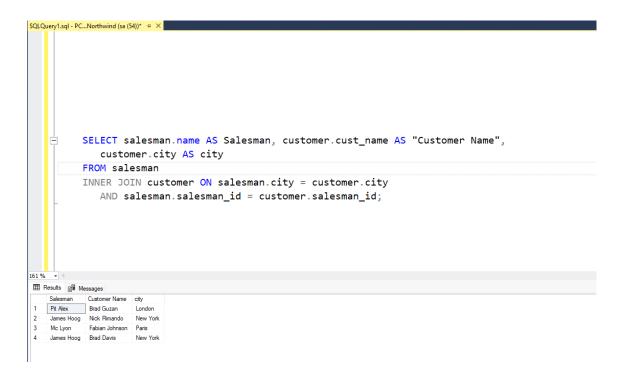
SELECT salesman.name AS Salesman, customer.cust_name AS "Customer Name",

customer.city AS city

FROM salesman

INNER JOIN customer ON salesman.city = customer.city

AND salesman_id = customer.salesman_id;

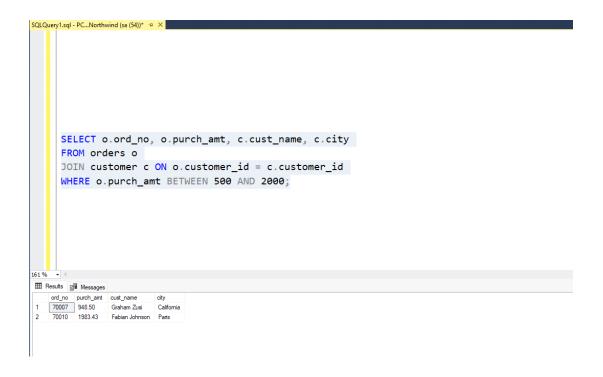


2. write a SQL query to find those orders where the order amount exists between 500 and 2000. Return ord_no, purch_amt, cust_name, city.

SELECT o.ord_no, o.purch_amt, c.cust_name, c.city
FROM orders o

JOIN customer c ON o.customer_id = c.customer_id

WHERE o.purch_amt BETWEEN 500 AND 2000;

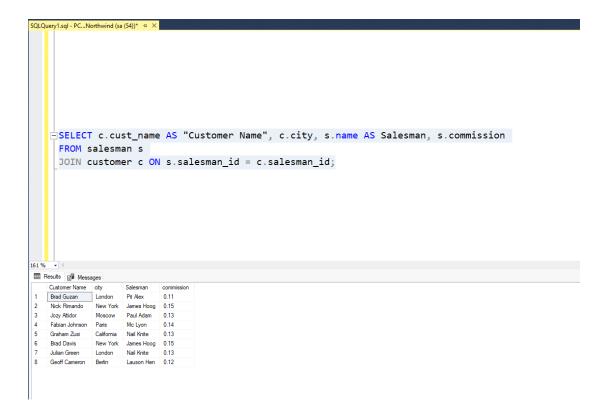


3. write a SQL query to find the salesperson(s) and the customer(s) he represents. Return Customer Name, city, Salesman, commission.

SELECT c.cust_name AS "Customer Name", c.city, s.name AS Salesman, s.commission

FROM salesman s

JOIN customer c ON s.salesman_id = c.salesman_id;



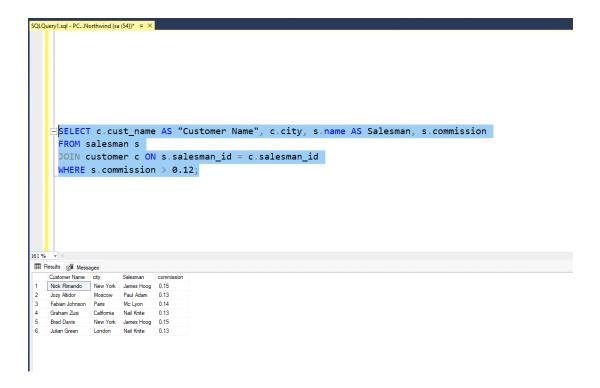
4. write a SQL query to find salespeople who received commissions of more than 12 percent from the company. Return Customer Name, customer city, Salesman, commission.

SELECT c.cust_name AS "Customer Name", c.city, s.name AS Salesman, s.commission

FROM salesman s

JOIN customer c ON s.salesman_id = c.salesman_id

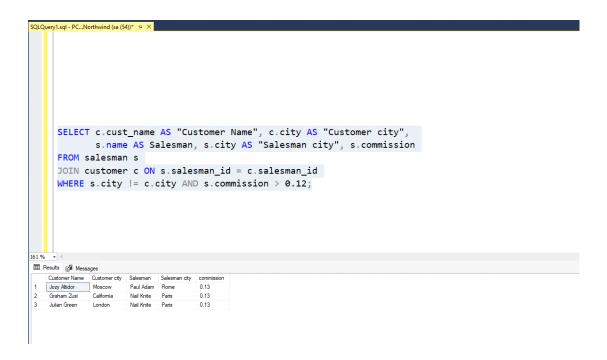
WHERE s.commission > 0.12;



5. write a SQL query to locate those salespeople who do not live in the same city where their customers live and have received a commission of more than 12% from the company. Return Customer Name, customer city, Salesman, salesman city, commission.

SELECT c.cust_name AS "Customer Name", c.city AS "Customer city", s.name AS Salesman, s.city AS "Salesman city", s.commission FROM salesman s

JOIN customer c ON s.salesman_id = c.salesman_id WHERE s.city != c.city AND s.commission > 0.12;

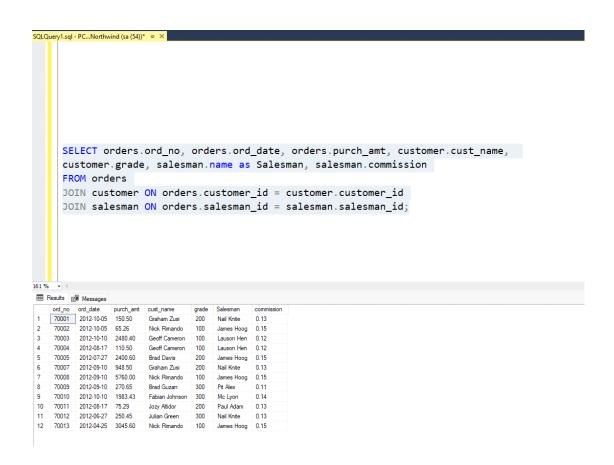


6. write a SQL query to find the details of an order. Return ord_no, ord_date, purch_amt, Customer Name, grade, Salesman, commission.

SELECT orders.ord_no, orders.ord_date, orders.purch_amt, customer.cust_name,

customer.grade, salesman.name as Salesman, salesman.commission FROM orders

JOIN customer ON orders.customer_id = customer.customer_id JOIN salesman ON orders.salesman_id = salesman.salesman_id;

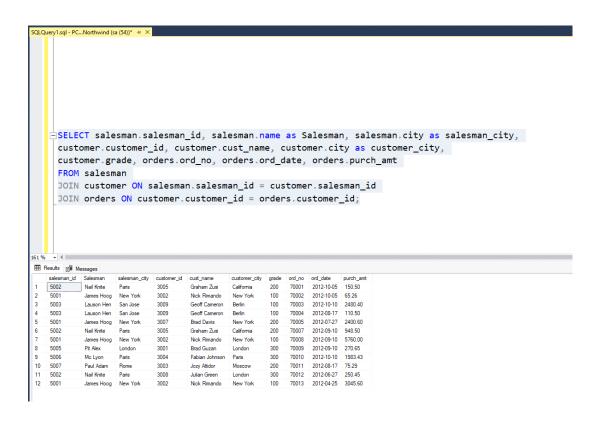


7. Write a SQL statement to join the tables salesman, customer and orders so that the same column of each table appears once and only the relational rows are returned.

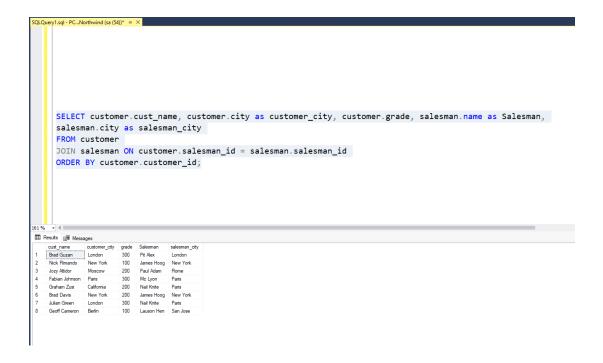
SELECT salesman.salesman_id, salesman.name as Salesman, salesman.city as salesman_city,

customer.customer_id, customer.cust_name, customer.city as customer_city, customer.grade, orders.ord_no, orders.ord_date, orders.purch_amt FROM salesman

JOIN customer ON salesman.salesman_id = customer.salesman_id JOIN orders ON customer.customer_id = orders.customer_id;



8. write a SQL query to display the customer name, customer city, grade, salesman, salesman city. The results should be sorted by ascending customer_id.



9. write a SQL query to find those customers with a grade less than 300. Return cust_name, customer city, grade, Salesman, salesmancity. The result should be ordered by ascending customer id.

SELECT customer.cust_name, customer.city as customer_city, customer.grade, salesman.name as Salesman,

salesman.city as salesman_city

FROM customer

JOIN salesman ON customer.salesman id = salesman.salesman id

WHERE customer.grade < 300

ORDER BY customer.customer_id;

```
SELECT customer.cust_name, customer.city as customer_city, customer.grade, salesman.name as Salesman, salesman.city as salesman_city as salesman_city

FROM customer

JOIN salesman ON customer.salesman_id = salesman.salesman_id

WHERE customer.grade < 300

ORDER BY customer.customer_id;

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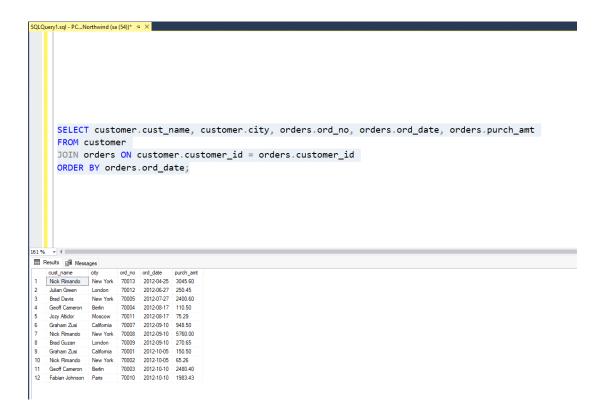
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```

10. Write a SQL statement to make a report with customer name, city, order number, order date, and order amount in ascending order according to the order date to determine whether any of the existing customers have placed an order or not.

SELECT customer.cust_name, customer.city, orders.ord_no, orders.ord_date, orders.purch_amt

FROM customer

JOIN orders ON customer.customer_id = orders.customer_id ORDER BY orders.ord date;



11. Write a SQL statement to generate a report with customer name, city, order

number, order date, order amount, salesperson name, and commission to determine if any of the existing customers have not placed orders or if they have placed orders through their salesman or by themselves.

SELECT customer.cust_name, customer.city, orders.ord_no, orders.ord_date, orders.purch_amt,

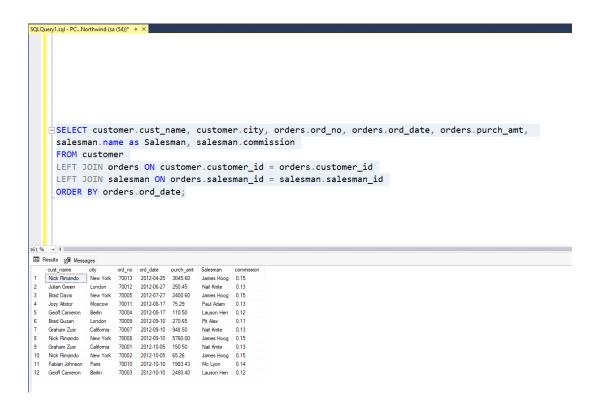
salesman.name as Salesman, salesman.commission

FROM customer

LEFT JOIN orders ON customer.customer_id = orders.customer_id

LEFT JOIN salesman ON orders.salesman_id = salesman.salesman_id

ORDER BY orders.ord_date;



12. Write a SQL statement to generate a list in ascending order of salespersons who work either for one or more customers or have not yet joined any of the customers.

SELECT name, city, commission

FROM salesman

WHERE salesman_id IN (SELECT salesman_id FROM customer) OR salesman_id NOT IN (SELECT salesman_id FROM customer)

ORDER BY name

13. write a SQL query to list all salespersons along with customer name, city, grade, order number, date, and amount.

SELECT

```
salesman.name AS Salesman,
customer.cust_name AS Customer_Name,
customer.city AS Customer_City,
customer.grade AS Customer_Grade,
orders.ord_no AS Order_Number,
orders.ord_date AS Order_Date,
orders.purch_amt AS Order_Amount
```

FROM

salesman

LEFT JOIN customer ON salesman.salesman_id = customer.salesman_id LEFT JOIN orders ON customer.customer_id = orders.customer_id;

```
SQLQuery1.sql - PC...Northwind (sa (54))* 😕 🗶
      SELECT
        salesman.name AS Salesman,
        customer.cust_name AS Customer_Name,
        customer.city AS Customer_City,
        customer.grade AS Customer_Grade,
        orders.ord_no AS Order_Number,
        orders.ord_date AS Order_Date,
        orders.purch_amt AS Order_Amount
      FROM
         salesman
         LEFT JOIN customer ON salesman.salesman id = customer.salesman id
       LEFT JOIN orders ON customer.customer_id = orders.customer_id;
161 % -
Results Messages
   Salesman Customer_Name Customer_City

James Hoog Nick Rimando New York
                                 Customer_Grade Order_Number Order_Date Order_Amount
                                  100
                                             70002
                                                       2012-10-05 65.26
    James Hoog Nick Rimando
                        New York
                                  100
                                             70008
                                                       2012-09-10 5760.00
   James Hoog Nick Rimando
                        New York
                                  100
                                                       2012-04-25
                                                               3045.60
   James Hoog Brad Davis
                                  200
                                             70005
                                                       2012-07-27 2400.60
   Nail Knite
            Graham Zusi
                        California
                                  200
                                             70001
                                                       2012-10-05 150.50
                        California
                                                       2012-09-10 948.50
```

2012-06-27 250.45

2012-10-10 2480.40

2012-08-17 110.50

2012-09-10 270.65

2012-10-10 1983.43

2012-08-17 75.29

Nail Knite

Nail Knite

10 Pit Alex

11 Mc Lyon

Graham Zusi

Julian Green

Lauson Hen Geoff Cameron Berlin

Brad Guzan

Fabian Johnson Paris

Lauson Hen Geoff Cameron

12 Paul Adam Jozy Altidor

200

300

100

300

300

London

London

70007

70012

70003

70004

70009

70010

14. Write a SQL statement to make a list for the salesmen who either work for one or more customers or yet to join any of the customers. The customer may have placed, either one or more orders on or above order amount 2000 and must have a grade, or he may not have placed any order to the associated supplier.

```
SELECT salesman.name AS Salesman,
   customer.cust name AS Customer Name,
   customer.city AS Customer City,
   customer.grade,
   orders.ord no AS Order Number,
   orders.ord date AS Order Date,
   orders.purch amt AS Order Amount
FROM salesman
LEFT JOIN customer ON salesman.salesman id = customer.salesman id
LEFT JOIN orders ON customer.customer id = orders.customer id
WHERE (customer.grade IS NOT NULL AND orders.purch amt >= 2000)
 OR (customer.grade IS NOT NULL AND orders.purch_amt IS NULL)
 OR (customer.grade IS NULL AND orders.purch_amt IS NULL)
GROUP BY salesman.name,
     customer.cust_name,
     customer.city,
     customer.grade,
     orders.ord no,
     orders.ord_date,
     orders.purch amt;
```

```
SQLQuery1.sql - PC...Northwind (sa (54))* 💠 🗶
     SELECT salesman.name AS Salesman,
          customer.cust_name AS Customer_Name,
          customer.city AS Customer_City,
           customer.grade,
           orders.ord_no AS Order_Number,
           orders.ord date AS Order Date,
           orders.purch_amt AS Order_Amount
     FROM salesman
     LEFT JOIN customer ON salesman.salesman_id = customer.salesman_id
     LEFT JOIN orders ON customer.customer_id = orders.customer_id
    WHERE (customer.grade IS NOT NULL AND orders.purch_amt >= 2000)
       OR (customer.grade IS NOT NULL AND orders.purch_amt IS NULL)
       OR (customer.grade IS NULL AND orders.purch_amt IS NULL)
    GROUP BY salesman.name,
             customer.cust_name,
             customer.city,
             customer.grade,
             orders.ord_no,
             orders.ord date,
             orders.purch_amt;
110 % +
Results Messages
              Customer_Name Customer_City grade Order_Number Order_Date Order_Amount
     Salesman
   James Hoog Brad Davis
                          New York 200 70005
                                                      2012-07-27 2400.60
                                     100 70008
                                                      2012-09-10 5760.00
2
    James Hoog Nick Rimando
                          New York
3 James Hoog Nick Rimando New York 100 70013
                                                     2012-04-25 3045.60
                                                 2012-10-10 2480.40
4 Lauson Hen Geoff Cameron Berlin 100 70003
```

15. Write a SQL statement to generate a list of all the salesmen who either work for one or more customers or have yet to join any of them. The customer may have placed one or more orders at or above order amount 2000, and must have a grade, or he may not have placed any orders to the associated supplier.

SELECT s.salesman_id, s.name AS salesperson, s.city AS salesperson_city, c.customer_id, c.cust_name AS customer, c.city AS customer_city, c.grade, o.ord no, o.purch amt, o.ord date

FROM salesman s

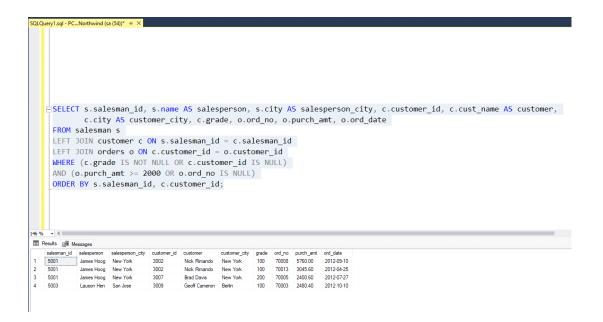
LEFT JOIN customer c ON s.salesman_id = c.salesman_id

LEFT JOIN orders o ON c.customer_id = o.customer_id

WHERE (c.grade IS NOT NULL OR c.customer_id IS NULL)

AND (o.purch amt >= 2000 OR o.ord no IS NULL)

ORDER BY s.salesman_id, c.customer_id;



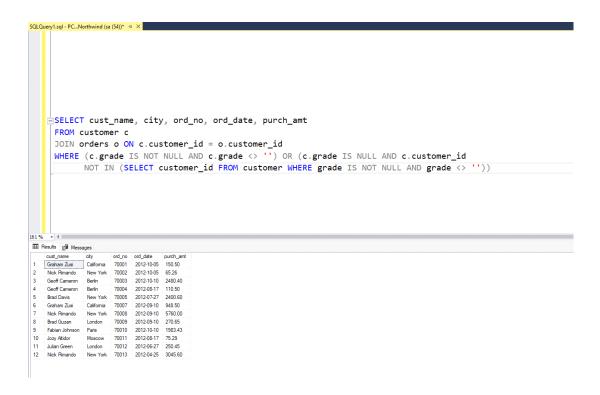
16. Write a SQL statement to generate a report with the customer name, city, order no. order date, purchase amount for only those customers on the list who must have a grade and placed one or more orders or which order(s) have been placed by the customer who neither is on the list nor has a grade.

SELECT cust name, city, ord no, ord date, purch amt

FROM customer c

JOIN orders o ON c.customer_id = o.customer_id

WHERE (c.grade IS NOT NULL AND c.grade <> ") OR (c.grade IS NULL AND c.customer_id NOT IN (SELECT customer_id FROM customer WHERE grade IS NOT NULL AND grade <> "))



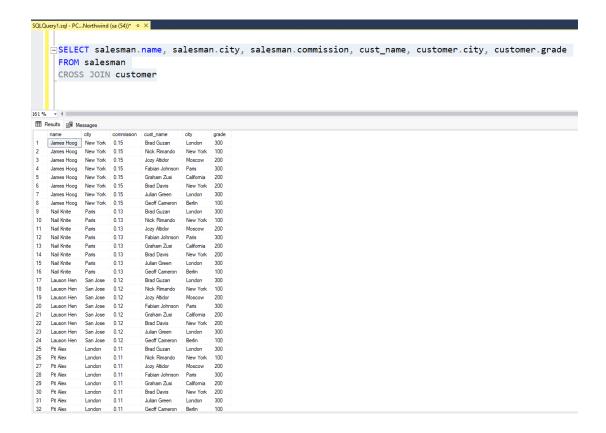
17. Write a SQL query to combine each row of the salesman table with each row

of the customer table.

SELECT salesman.name, salesman.city, salesman.commission, cust_name, customer.city, customer.grade

FROM salesman

CROSS JOIN customer

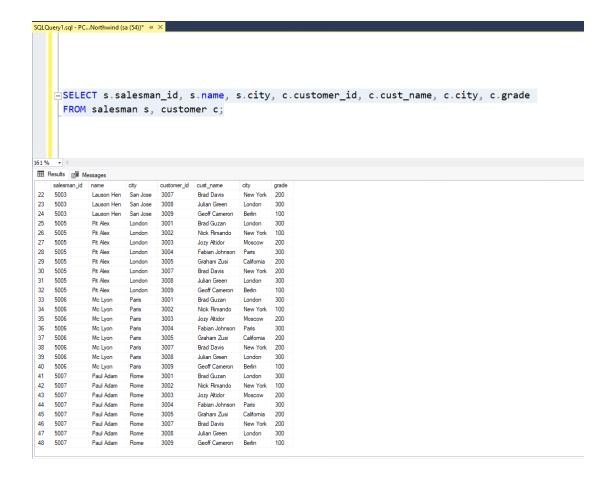


18. Write a SQL statement to create a Cartesian product between salesperson

and customer, i.e. each salesperson will appear for all customers and vice versa for that salesperson who belongs to that city.

SELECT s.salesman_id, s.name, s.city, c.customer_id, c.cust_name, c.city, c.grade

FROM salesman s, customer c;



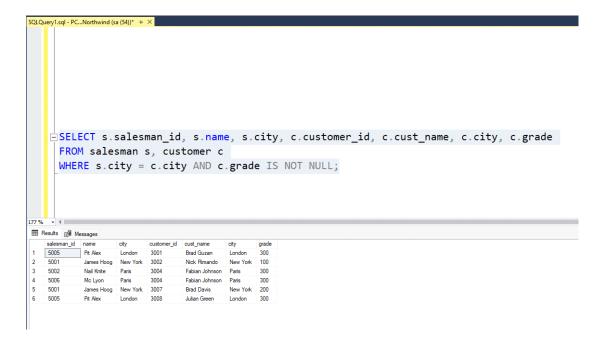
19. Write a SQL statement to create a Cartesian product between salesperson

and customer, i.e. each salesperson will appear for every customer and vice versa for those salesmen who belong to a city and customers who require a grade.

SELECT s.salesman_id, s.name, s.city, c.customer_id, c.cust_name, c.city, c.grade

FROM salesman s, customer c

WHERE s.city = c.city AND c.grade IS NOT NULL;



20. Write a SQL statement to make a Cartesian product between salesman and customer i.e. each salesman will appear for all customers and vice versa for

those salesmen who must belong to a city which is not the same as his customer and the customers should have their own grade.

SELECT s.salesman_id, s.name, s.city, c.customer_id, c.cust_name, c.city, c.grade

FROM salesman s, customer c

WHERE s.city <> c.city AND c.grade IS NOT NULL;

