## Assignment-2

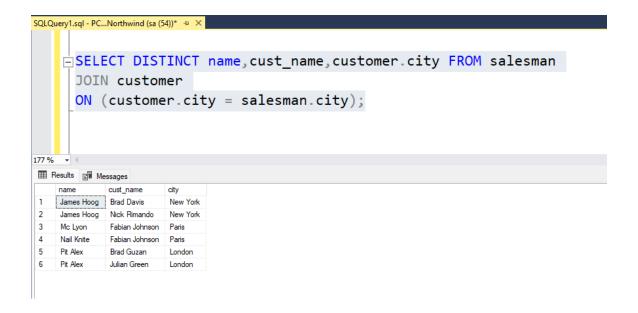
## Retrieve data using join with where clause

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

SELECT DISTINCT name,cust\_name,customer.city FROM salesman

JOIN customer

ON (customer.city = salesman.city);

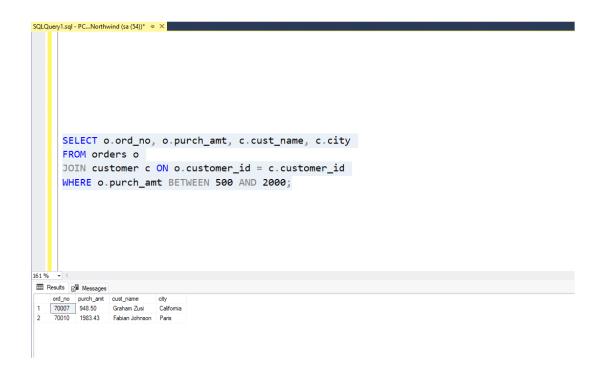


2. write a SQL query to find those orders where the order amount exists between 500 and 2000. Return ord\_no, purch\_amt, cust\_name, city.

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;

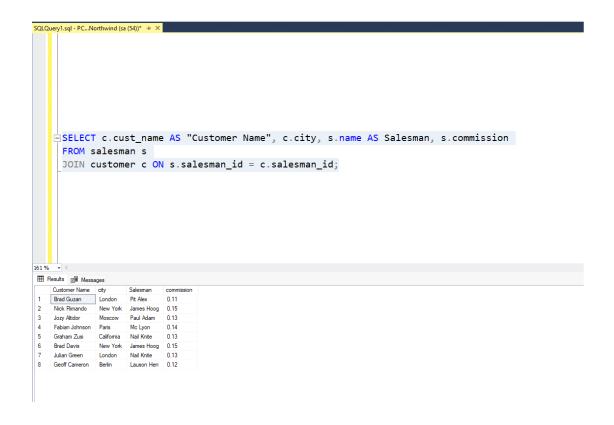


3. write a SQL query to find the salesperson(s) and the customer(s) he represents. Return Customer Name, city, Salesman, commission.

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;



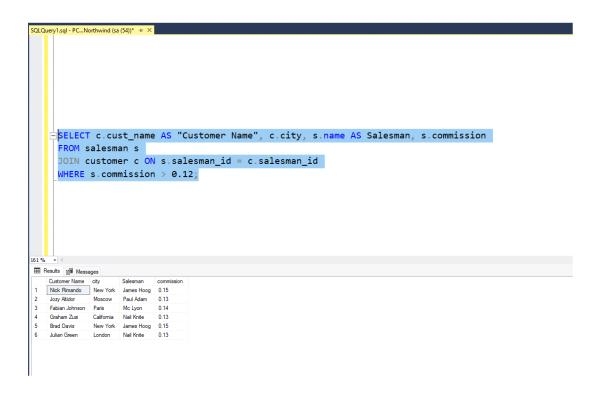
4. write a SQL query to find salespeople who received commissions of more than 12 percent from the company. Return Customer Name, customer city, Salesman, commission.

SELECT c.cust\_name AS "Customer Name", c.city, s.name AS Salesman, s.commission

FROM salesman s

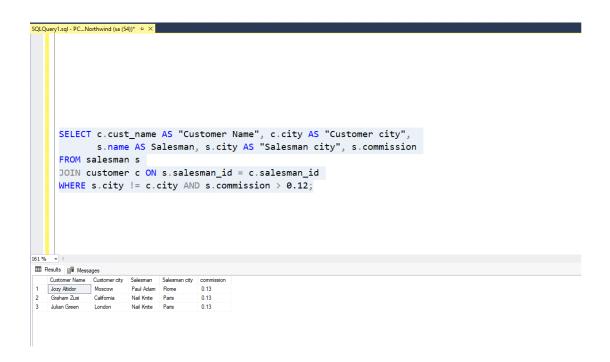
JOIN customer c ON s.salesman\_id = c.salesman\_id

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;



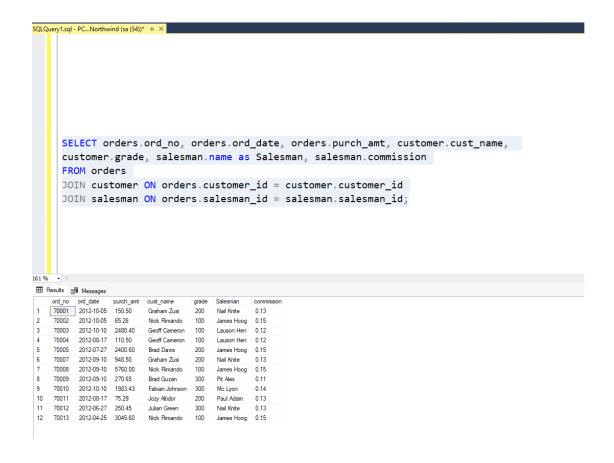
6. write a SQL query to find the details of an order. Return ord\_no, ord\_date, purch\_amt, Customer Name, grade, Salesman, commission.

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;

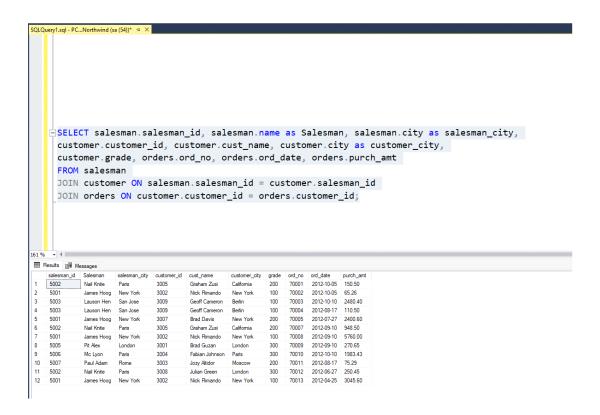


7. Write a SQL statement to join the tables salesman, customer and orders so that the same column of each table appears once and only the relational rows are returned.

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;

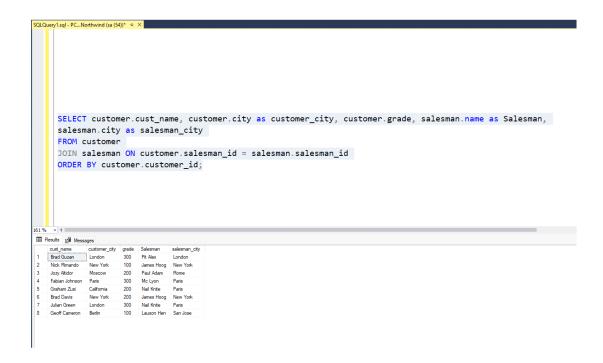


8. write a SQL query to display the customer name, customer city, grade, salesman, salesman city. The results should be sorted by ascending customer\_id.

SELECT cust\_name, customer.city, grade, name, salesman.city AS salesman\_city

FROM customer

JOIN salesman ON customer.salesman\_id = salesman.salesman\_id ORDER BY 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,

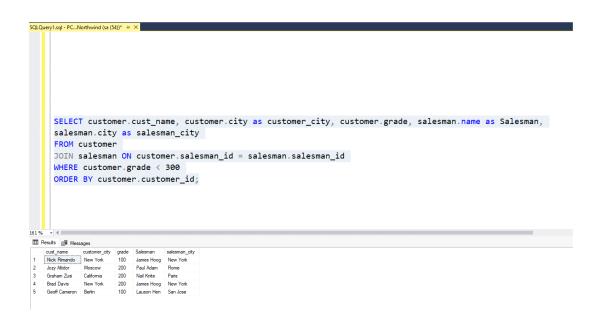
salesman.city as salesman\_city

FROM customer

JOIN salesman ON customer.salesman\_id = salesman.salesman\_id

WHERE customer.grade < 300

ORDER BY customer.customer\_id;



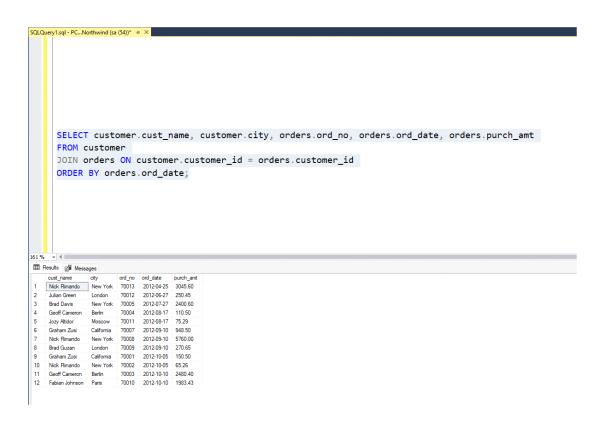
10. Write a SQL statement to make a report with customer name, city, order number, order date, and order amount in ascending order according to the order date to determine whether any of the existing customers have placed an order or not.

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,

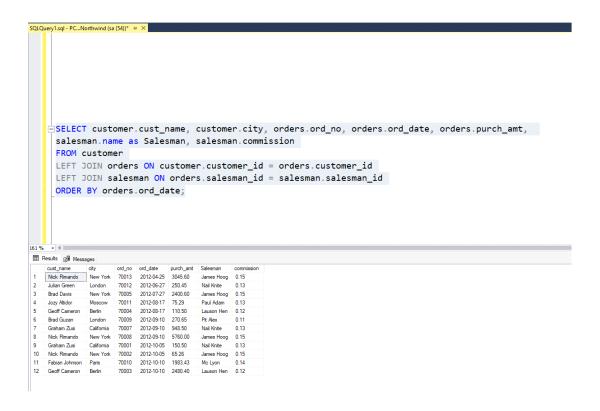
salesman.name as Salesman, salesman.commission

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;



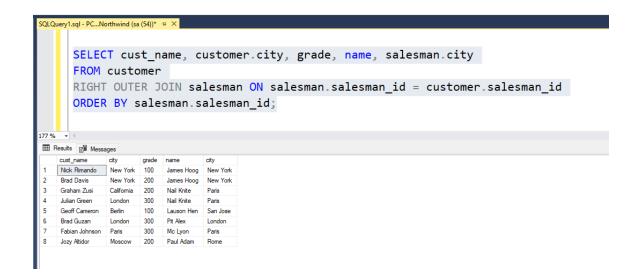
12. Write a SQL statement to generate a list in ascending order of salespersons who work either for one or more customers or have not yet joined any of the customers.

SELECT cust\_name, customer.city, grade, name, salesman.city

FROM customer

RIGHT OUTER JOIN salesman ON salesman.salesman\_id = customer.salesman\_id

ORDER BY salesman.salesman\_id;

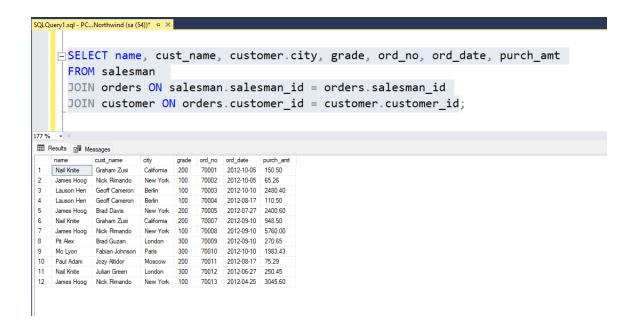


13. write a SQL query to list all salespersons along with customer name, city, grade, order number, date, and amount.

SELECT name, cust\_name, customer.city, grade, ord\_no, ord\_date, purch\_amt FROM salesman

JOIN orders ON salesman.salesman\_id = orders.salesman\_id

JOIN customer ON orders.customer\_id = customer.customer\_id;



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 cust\_name,customer.city,grade, name, ord\_no, ord\_date, purch\_amt FROM customer

RIGHT OUTER JOIN salesman ON customer.salesman\_id = salesman.salesman id

LEFT OUTER JOIN orders ON customer.customer\_id = orders.customer\_id WHERE orders.purch\_amt>=2000 AND customer.grade IS NOT NULL;

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 cust\_name,customer.city,grade, name, ord\_no, ord\_date, purch\_amt FROM customer

RIGHT OUTER JOIN salesman ON customer.salesman\_id = salesman.salesman\_id

LEFT OUTER JOIN orders ON customer.customer\_id = orders.customer\_id WHERE orders.purch\_amt>=2000 AND customer.grade IS NOT NULL;

```
SELECT cust_name, customer.city,grade, name, ord_no, ord_date, purch_amt
FROM customer
RIGHT OUTER JOIN salesman ON customer.salesman_id = salesman.salesman_id
LEFT OUTER JOIN orders ON customer.customer_id = orders.customer_id
WHERE orders.purch_amt>=2000 AND customer.grade IS NOT NULL;

177 % - 4

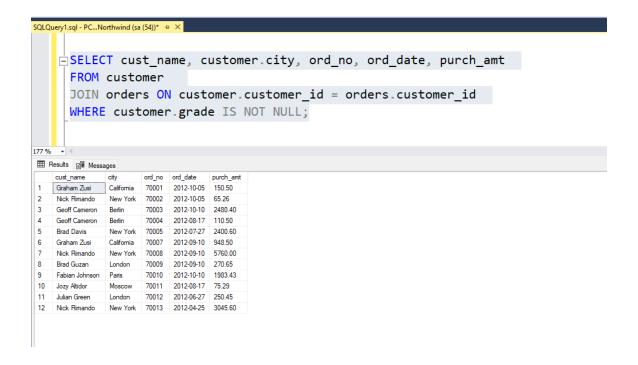
Results Messages

| Cust_name | City | grade | name | ord_no | ord_date | purch_amt | |
| Geoff Cameron | Berin | 100 | Lauson Hen | 70003 | 2012-10-10 | 2480.40 |
| Bed Davis | New York | 100 | James Hoog | 70005 | 2012-07-27 | 2400.60 |
| 3 | Nick Rimando | New York | 100 | James Hoog | 70013 | 2012-04-25 | 3045.60 |
```

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, customer.city, ord\_no, ord\_date, purch\_amt FROM customer

JOIN orders ON customer.customer\_id = orders.customer\_id WHERE customer.grade IS NOT NULL;

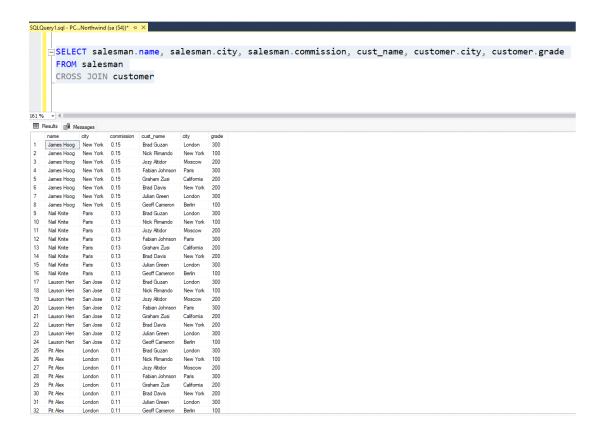


17. Write a SQL query to combine each row of the salesman table with each row of the customer table.

SELECT salesman.name, salesman.city, salesman.commission, cust\_name, customer.city, customer.grade

FROM salesman

**CROSS JOIN customer** 

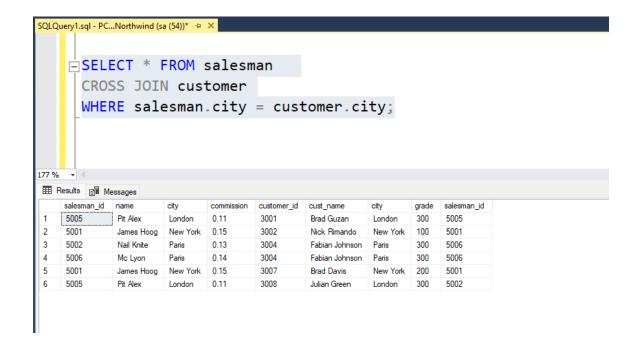


18. Write a SQL statement to create a Cartesian product between salesperson and customer, i.e. each salesperson will appear for all customers and vice versa for that salesperson who belongs to that city.

SELECT \* FROM salesman

**CROSS JOIN customer** 

WHERE salesman.city = customer.city;

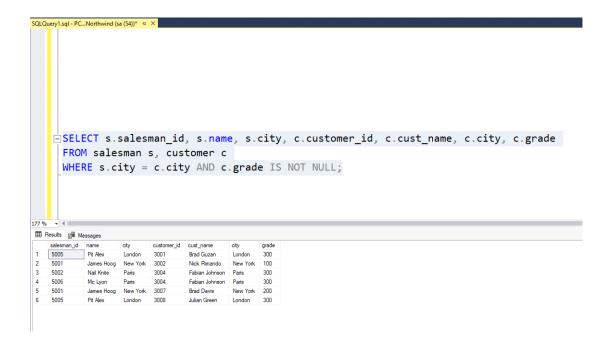


19. Write a SQL statement to create a Cartesian product between salesperson and customer, i.e. each salesperson will appear for every customer and vice versa for those salesmen who belong to a city and customers who require a grade.

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;

