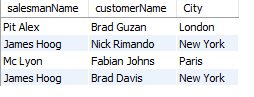
SQL Assignment-2

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

**Query1:**

SELECT s.Name salesmanName, c.Cust\_Name customerName, c.City FROM salesman s INNER JOIN customer c ON s.Salesman\_ID = c.Salesman\_ID and s.City = c.City;

**Output:**

****

**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.**

**Query2:**

SELECT o.Ord\_NO orderNO, o.Purch\_Amt purchaseAmount, c.Cust\_Name customerName, c.City FROM orders o INNER JOIN customer c ON o.Customer\_ID = c.Customer\_ID WHERE o.Purch\_Amt BETWEEN 500 and 2000 ;

**Output:**

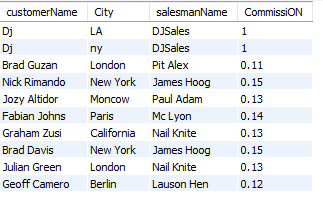


**3: write a SQL query to find the salesperson(s) and the customer(s) he represents. Return Customer Name, city, Salesman, commission .**

**Query3:**

SELECT c.Cust\_Name customerName, c.City, s.Name salesmanName, s.CommissiON FROM customer c INNER JOIN salesman s ON s.salesman\_id = c.salesman\_id;

**Output:**



**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.**

**Query4:**

SELECT c.Cust\_Name customerName, c.City, s.Name salesmanName, s.CommissiON FROM salesman s INNER JOIN customer c ON s.salesman\_id = c.salesman\_id WHERE s.Commission>0.12;

**Output:**

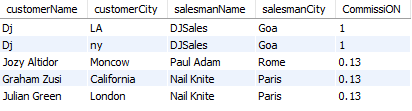


**5: write a SQL query to locate those salespeople who do not live in the same city where their customers live and have received a commission of more than 12% from the company. Return Customer Name, customer city, Salesman, salesman city, commission.**

**Query5:**

SELECT c.Cust\_Name customerName, c.City customerCity, s.Name salesmanName,s.City salesmanCity, s.CommissiON FROM salesman s INNER JOIN customer c ON s.salesman\_id = c.salesman\_id AND s.City != c.City WHERE s.CommissiON>0.12;

**Output:**

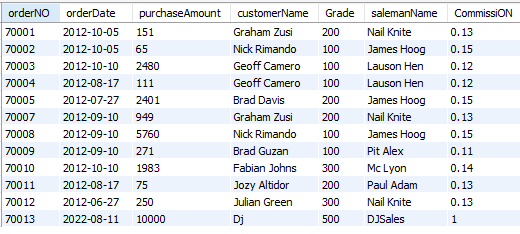


**6: write a SQL query to find the details of an order. Return ord\_no, ord\_date, purch\_amt, Customer Name, grade, Salesman, commission.**

**Query6:**

SELECT o.Ord\_NO orderNO, o.Ord\_Date orderDate, o.Purch\_Amt purchaseAmount, c.Cust\_Name customerName, c.Grade , s.Name salemanName, s.CommissiON FROM salesman s INNER JOIN customer c ON s.salesman\_id = c.salesman\_id INNER JOIN orders o ON c.Customer\_ID = o.Customer\_ID;

**Output:**

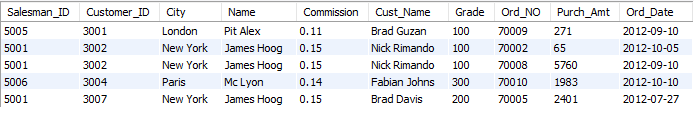


**7: Write a SQL statement to join the tables salesman, customer and orders so that the same column of each table appears once and only the relational rows are returned.**

**Query7:**

SELECT \* FROM salesman s NATURAL JOIN customer c NATURAL JOIN orders o;

**Output:**

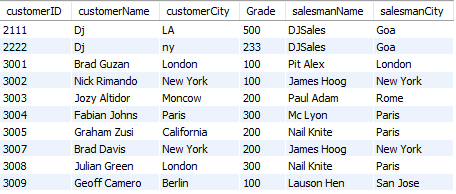
****

**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.**

**Query8:**

SELECT c.Customer\_ID customerID, c.Cust\_Name customerName, c.City customerCity,c.Grade, s.Name salesmanName,s.City salesmanCity FROM salesman s INNER JOIN customer c ON s.Salesman\_ID = c.Salesman\_ID ORDER BY c.Customer\_ID;

**Output:**

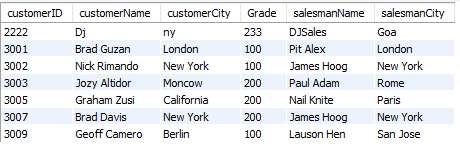
****

**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.**

**Query9:**

SELECT c.Customer\_ID customerID, c.Cust\_Name customerName, c.City customerCity,c.Grade, s.Name salesmanName,s.City salesmanCity FROM salesman s INNER JOIN customer c ON s.Salesman\_ID = c.Salesman\_ID WHERE c.Grade<300 ORDER BY c.Customer\_ID ;

**Output:**



**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.**

**Query10:**

SELECT c.Cust\_Name customerName,c.customer\_id, c.City, o.Ord\_NO orderNO, o.Ord\_Date orderDate, o.Purch\_Amt purchaseAmount,

CASE

WHEN C.CUSTOMER\_ID IN(SELECT DISTINCT(C.CUSTOMER\_ID) FROM CUSTOMER C INNER JOIN ORDERS O WHERE C.CUSTOMER\_ID = O.CUSTOMER\_ID)

THEN 'YES'

ELSE

'NO'

END as customerOrdered

FROM orders o RIGHT JOIN customer c ON o.Customer\_ID = c.Customer\_ID ORDER BY o.Ord\_Date;

**Output:**



**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.**

**Query11:**

SELECT c.Cust\_Name customerName,c.customer\_id, c.City, o.Ord\_NO orderNO, o.Ord\_Date orderDate, o.Purch\_Amt purchaseAmount,

CASE

WHEN C.CUSTOMER\_ID IN(SELECT DISTINCT(C.cusTOMER\_ID) FROM CUSTOMER C INNER JOIN ORDERS O WHERE C.CUSTOMER\_ID = O.CUSTOMER\_ID)

THEN 'YES'

ELSE 'NO'

END as customerOrdered,

CASE

WHEN o.Salesman\_ID IN(SELECT DISTINCT(o.Salesman\_ID) FROM salesman s INNER JOIN ORDERS O ON s.salesman\_ID = O.salesman\_id)

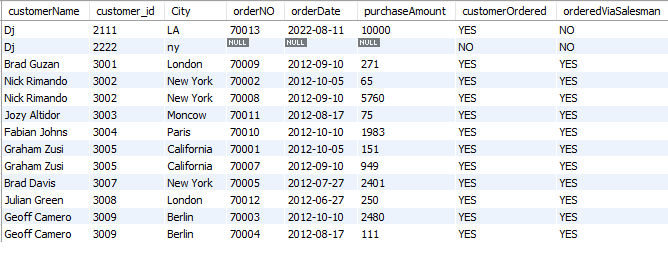
THEN 'YES'

ELSE 'NO'

END as orderedViaSalesman

FROM orders o RIGHT JOIN customer c ON o.Customer\_ID = c.Customer\_ID LEFT JOIN salesman s ON s.Salesman\_ID=o.Salesman\_ID;

**Output:**



**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.**

**Query12:**

SELECT s.name,s.salesman\_id,

CASE

WHEN s.salesman\_id in(SELECT(s.salesman\_id) FROM salesman s INNER JOIN customer c WHERE s.Salesman\_ID = c.Salesman\_ID)

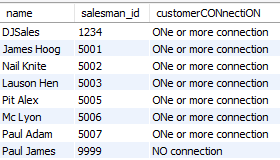
THEN 'ONe or more connection'

ELSE 'NO connection'

END AS customerCONnectiON

FROM salesman s ;

**Output:**

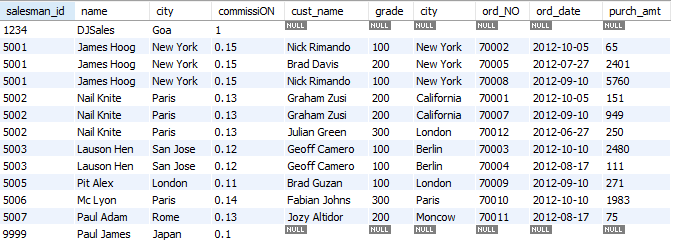


**13: Write a SQL query to list all salespersons along with customer name, city, grade, order number, date, and amount.**

**Query13:**

SELECT s.salesman\_id, s.name, s.city, s.commission, c.cust\_name, c.grade, c.city, o.ord\_NO, o.ord\_date, o.purch\_amt FROM customer c INNER JOIN orders o ON c.customer\_id = o.customer\_id RIGHT JOIN salesman s ON s.Salesman\_ID = o.salesman\_id ;

**Output:**

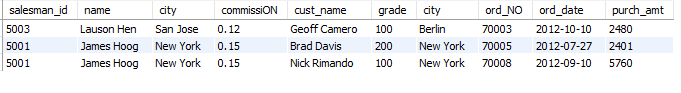


**14: Write a SQL statement to make a list for the salesmen who either work for one or more customers or yet to join any of the customers. The customer may have placed, either one or more orders on or above order amount 2000 and must have a grade, or he may not have placed any order to the associated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

**Query14:**

SELECT s.salesman\_id, s.name, s.city, s.commission, c.cust\_name, c.grade, c.city, o.ord\_NO, o.ord\_date, o.purch\_amt FROM customer c INNER JOIN orders o ON c.customer\_id = o.customer\_id RIGHT JOIN salesman s ON s.Salesman\_ID = o.salesman\_id WHERE c.Grade IS NOT NULL AND o.Purch\_Amt > 2000;

**Output:**

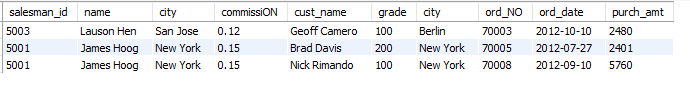


**15: Write a SQL statement to make a list for the salesmen who either work for one or more customers or yet to join any of the customers. The customer may have placed, either one or more orders at or above order amount 2000 and must have a grade, or he may not have placed any order to the associated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

**Query15:**

SELECT s.salesman\_id, s.name, s.city, s.commission, c.cust\_name, c.grade, c.city, o.ord\_NO, o.ord\_date, o.purch\_amt FROM customer c INNER JOIN orders o ON c.customer\_id = o.customer\_id RIGHT JOIN salesman s ON s.Salesman\_ID = o.salesman\_id WHERE c.Grade IS NOT NULL AND o.Purch\_Amt >= 2000;

**Output:**

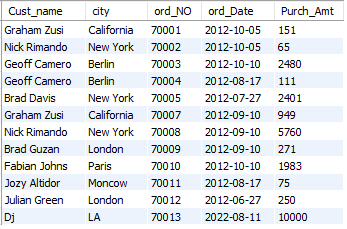


**16: Write a SQL statement to generate a report with the customer name, city, order no. order date, purchase amount for only those customers on the list who must have a grade and placed one or more orders or which order(s) have been placed by the customer who neither is on the list nor has a grade.**

**Query16:**

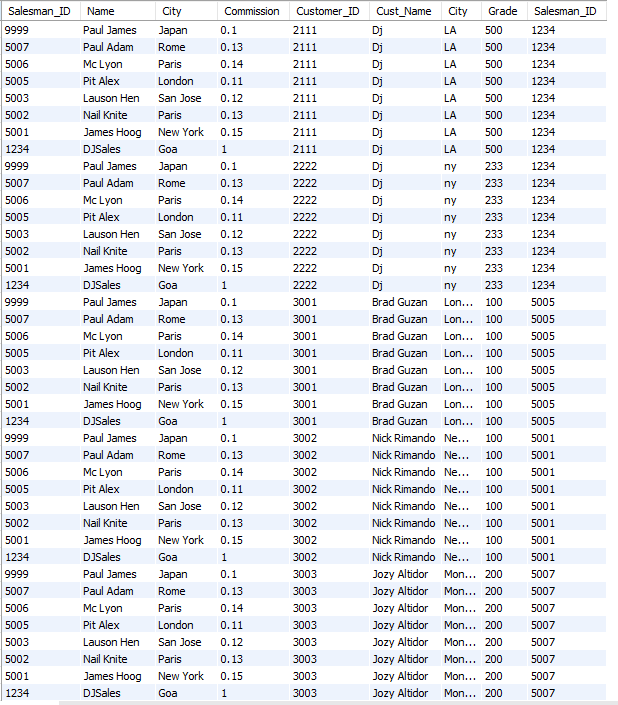
SELECT c.Cust\_name, c.city, o.ord\_NO, o.ord\_Date, o.Purch\_Amt FROM customer c INNER JOIN orders o ON c.Customer\_ID = o.Customer\_ID WHERE c.Grade IS NOT NULL;

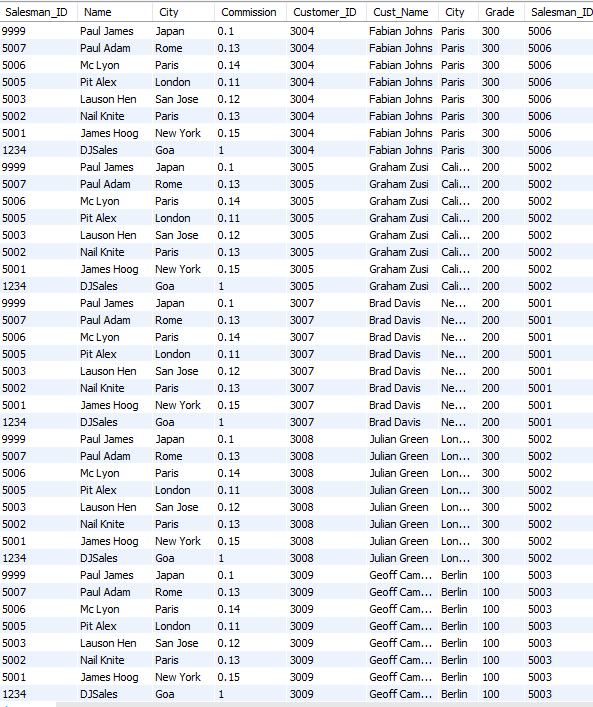
**Output:**



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

**Query17:** SELECT \* FROM salesman s CROSS JOIN customer c;

**Output:**

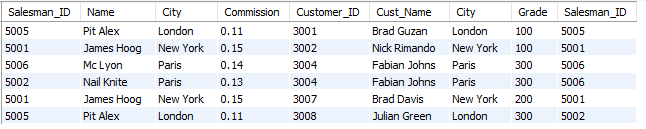


**18: Write a SQL statement to create a Cartesian product between salesperson and customer, i.e. each salesperson will appear for all customers and vice versa for that salesperson who belongs to that city.**

**Query18:**

SELECT \* FROM salesman s CROSS JOIN customer c where c.city = s.city;

**Output:**

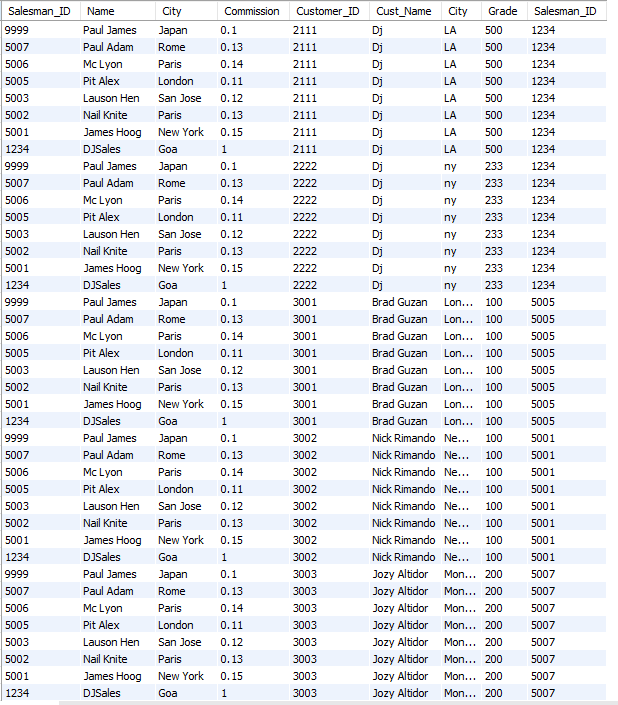


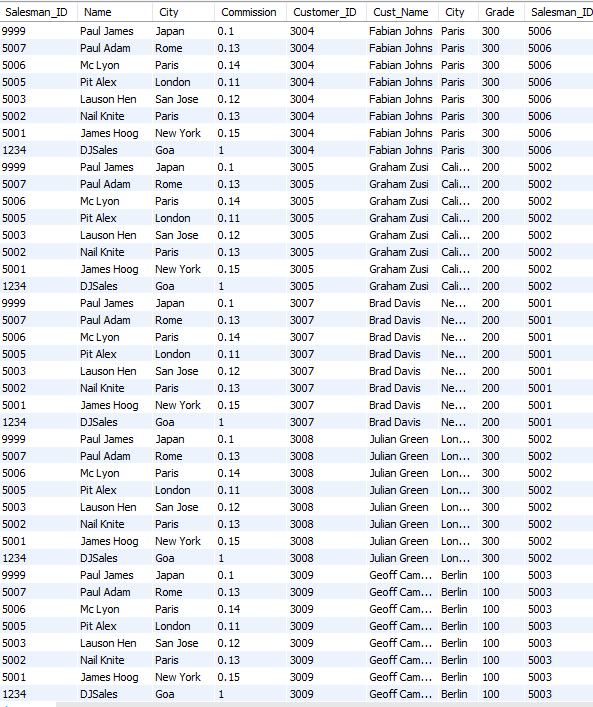
**19: Write a SQL statement to create a Cartesian product between salesperson and customer, i.e. each salesperson will appear for every customer and vice versa for those salesmen who belong to a city and customers who require a grade.**

**Query19:**

SELECT \* FROM salesman s CROSS JOIN customer c where s.city IS NOT NULL and c.grade IS NOT NULL;

**Output:**





**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.**

**Query20:**

SELECT \* FROM salesman s CROSS JOIN customer c where s.city != c.city and c.grade IS NOT NULL;

**Output:**

