☑ ~~ASSIGNMENT NO 7~~

1. Write a SQL statement to prepare a list with salesman name, customer name and their cities for the salesmen and customer who belongs to the same city.

```
SELECT s.name AS salesman_name, c.cust_name AS customer_name, c.city FROM salesman s
JOIN customers c ON s.city = c.city;

select * from customers;
select * from salesman;
select * from orders2;
```

2. Write a SQL statement to know which salesman is working for which customer.

```
SELECT s.name AS salesman_name, c.cust_name AS cust_name FROM salesman s
JOIN orders2 o ON s.salesman_id = o.salesman_id
JOIN customers c ON o.customer_id = c.customer_id;
```

3. Write a SQL statement to find the list of customers who appointed a salesman for their jobs who gets a commission from the company is more than 12%.

```
SELECT c.cust_name AS customer_name, s.name AS salesman_name, commission FROM customers c
JOIN orders2 o ON c.customer_id = o.customer_id
JOIN salesman s ON o.salesman_id = s.salesman_id
WHERE s.commission > 0.12;
```

4. Write a SQL statement to make a list with order no, purchase amount, customer name and their cities for those orders with order amount between 500 and 2000.

```
select ord_no , purch_amt, c.cust_name, c.city from orders2 o
join customers c on o.customer_id = c.customer_id
where purch_amt between 500 and 2000;
```

5. Write a SQL statement to find the details of a order i.e. order number, order date, amount of order, which customer gives the order and which salesman works for that customer and how much commission he gets for an order.

```
SELECT o.ord_no, o.ord_date, o.purch_amt, c.cust_name AS customer_name, s.name AS salesman_name,
s.commission FROM orders2 o
join customers c on o.customer_id = c.salesman_id
join salesman s on o.customer_id = s.salesman_id;
```

6. 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 between salesman and customer i.e. each salesman will appear for all customers an and vice versavice versa. statement to make a join on the tables salesman, customer and orders in such a form that the same column of each table will appear once and only the relational rows will co and vice versa.

```
SELECT s.name AS salesman_name, c.cust_name AS customer_name
FROM salesman s
CROSS JOIN customers c;
```

7. Write a SQL statement to make a join on the tables salesman, customer and orders in such a form that the same column of each table will appear once and only the relational rows will come.

```
SELECT o.ord_no, o.purch_amt, o.ord_date, c.cust_name AS customer_name, c.city AS customer_city,
s.name AS salesman_name, s.city AS salesman_city FROM orders2 o
JOIN customers c ON o.customer_id = c.customer_id
JOIN salesman s ON o.salesman_id = s.salesman_id;
```

8. Write a SQL statement to make a list in ascending order for the customer who works through a salesman.

```
SELECT c.cust_name AS customer_name, s.name AS salesman_name FROM customers c
JOIN orders2 o ON c.customer_id = o.customer_id
JOIN salesman s ON o.salesman_id = s.salesman_id
ORDER BY c.cust_name ASC;
```

9.Write a SQL statement to make a list in descending order for the salesmen who works either for one or more customer or not yet join under any of the customers.

```
SELECT s.name AS salesman_name, COUNT(o.customer_id) AS customer_count
FROM salesman s
LEFT JOIN orders2 o ON s.salesman_id = o.salesman_id
GROUP BY s.name
ORDER BY customer_count DESC;
```

10. Write a SQL statement to make a report of customer details as well as orders details with matching as well as unmatching data with condition null values should not appear in result set.

```
SELECT c.cust_name AS customer_name, c.city AS customer_city, o.ord_no, o.purch_amt, o.ord_date
FROM customers c
JOIN orders2 o ON c.customer_id = o.customer_id
WHERE o.ord_no IS NOT NULL AND o.purch_amt IS NOT NULL;
```