Performing Inner join

```
>> SELECT people.first_name, people.last_name, orders.order_id, orders.order_date
   FROM people
   INNER JOIN orders ON people.id = orders.customer_id;
```

Output :
```
+------------+-----------+----------+------------+
| first_name | last_name | order_id | order_date |
+------------+-----------+----------+------------+
| Aloin      | Nesbit    |        1 | 2023-01-15 |
| Grissel    | Steer     |        2 | 2023-02-20 |
| Brittni    | Snartt    |        3 | 2023-03-10 |
| Aloin      | Nesbit    |        4 | 2023-04-05 |
| Rudolfo    | Leahey    |        5 | 2023-05-18 |
+------------+-----------+----------+------------+
```

Performing Left join

```
>> SELECT people.first_name, people.last_name, orders.order_id, orders.order_date
   FROM people
   LEFT JOIN orders ON people.id = orders.customer_id;
```

Output:
```
+------------+-----------+----------+------------+
| first_name | last_name | order_id | order_date |
+------------+-----------+----------+------------+
| Donni      | Steinor   |     NULL | NULL       |
| Aloin      | Nesbit    |        4 | 2023-04-05 |
| Aloin      | Nesbit    |        1 | 2023-01-15 |
| Marlowe    | Lowton    |     NULL | NULL       |
| Grissel    | Steer     |        2 | 2023-02-20 |
| Maurits    | Gisborne  |     NULL | NULL       |
| Lizette    | Nary      |     NULL | NULL       |
| Brittni    | Snartt    |        3 | 2023-03-10 |
| Kaine      | Swigg     |     NULL | NULL       |
| Rudolfo    | Leahey    |        5 | 2023-05-18 |
| Erik       | Porritt   |     NULL | NULL       |
| Jean       | Porritt   |     NULL | NULL       |
| Egor       | Kreed     |     NULL | NULL       |
+------------+-----------+----------+------------+
```

Performing Right join

>> SELECT people.first_name, people.last_name, orders.order_id, orders.order_date
   FROM people
   RIGHT JOIN orders ON people.id = orders.customer_id;

Output:
```
+------------+-----------+----------+------------+
| first_name | last_name | order_id | order_date |
+------------+-----------+----------+------------+
| Aloin      | Nesbit    |        1 | 2023-01-15 |
| Grissel    | Steer     |        2 | 2023-02-20 |
| Brittni    | Snartt    |        3 | 2023-03-10 |
| Aloin      | Nesbit    |        4 | 2023-04-05 |
| Rudolfo    | Leahey    |        5 | 2023-05-18 |
+------------+-----------+----------+------------+
```

Performing FULL (Union) join

>> SELECT people.first_name, people.last_name, orders.order_id, orders.order_date
   FROM people
   LEFT JOIN orders ON people.id = orders.customer_id
   UNION
   SELECT people.first_name, people.last_name, orders.order_id, orders.order_date
   FROM people
   RIGHT JOIN orders ON people.id = orders.customer_id;

Output:
```
+------------+-----------+----------+------------+
| first_name | last_name | order_id | order_date |
+------------+-----------+----------+------------+
| Donni      | Steinor   |     NULL | NULL       |
| Aloin      | Nesbit    |        4 | 2023-04-05 |
| Aloin      | Nesbit    |        1 | 2023-01-15 |
| Marlowe    | Lowton    |     NULL | NULL       |
| Grissel    | Steer     |        2 | 2023-02-20 |
| Maurits    | Gisborne  |     NULL | NULL       |
| Lizette    | Nary      |     NULL | NULL       |
| Brittni    | Snartt    |        3 | 2023-03-10 |
| Kaine      | Swigg     |     NULL | NULL       |
| Rudolfo    | Leahey    |        5 | 2023-05-18 |
| Erik       | Porritt   |     NULL | NULL       |
| Jean       | Porritt   |     NULL | NULL       |
| Egor       | Kreed     |     NULL | NULL       |
+------------+-----------+----------+------------+
```

Performing Nested Sub-query Query

```
>> SELECT first_name, last_name
   FROM people
   WHERE id IN (SELECT DISTINCT customer_id FROM orders);
```

Output:
```
+------------+-----------+
| first_name | last_name |
+------------+-----------+
| Aloin      | Nesbit    |
| Grissel    | Steer     |
| Brittni    | Snartt    |
| Rudolfo    | Leahey    |
+------------+-----------+
```

Performing Corealted Sub-query Query

```
>> SELECT p.first_name, p.last_name, o.order_id, o.order_date, o.total_amount
   FROM people p
   LEFT JOIN orders o ON p.id = o.customer_id
   WHERE o.total_amount > (
   SELECT AVG(total_amount) FROM orders WHERE customer_id = p.id);
```

Output:
```
+------------+-----------+----------+------------+--------------+
| first_name | last_name | order_id | order_date | total_amount |
+------------+-----------+----------+------------+--------------+
| Aloin      | Nesbit    |        1 | 2023-01-15 |       120.00 |
+------------+-----------+----------+------------+--------------+
```