SQL SELF JOIN

SQL Self JOIN joining same table to itself. SQL Self JOIN possible only when table stored records are in hierarchical relationship between them.

You must use table alias name otherwise you can't distinguish columns name (referenced of which table's).

Logically assume that same table have two different copies but not actually different copies.



Example Table

Considering following orders table is our example table.

```
SQL> CREATE TABLE orders(
    order_id number(3),
    product_name VARCHAR(25),
    customer_name VARCHAR(25),
    order_amount number(5)
);

INSERT INTO orders VALUES (1,'Nokia Mobile', 'Opal Kole', 290);
INSERT INTO orders VALUES (2,'Flip Cover', 'Max Miller', 15);
INSERT INTO orders VALUES (3,'Handsfree', 'Beccaa Moss', 7);
INSERT INTO orders VALUES (4,'Canon Camera', 'Paul Singh', 2200);
INSERT INTO orders VALUES (5,'Playstation', 'Max Miller', 70);
INSERT INTO orders VALUES (6,'Sandwich Maker', 'Beccaa Moss', 28);
INSERT INTO orders VALUES (7,'Pen Drive 16GB', 'Opal Kole', 12);
INSERT INTO orders VALUES (8,'Headphone', 'Reed Koch', 38);
INSERT INTO orders VALUES (9,'HP Laptop i5', 'Reed Koch', 1300);
INSERT INTO orders VALUES (10,'Titanic Bluray Disk', 'Beccaa Moss', 78);
```

```
ORDER_ID PRODUCT_NAME CUSTOMER_NAME ORDER_AMOUNT

1 Nokia Mobile Opal Kole 290
2 Flip Cover Max Miller 15
3 Handsfree Beccaa Moss 7
4 Canon Camera Paul Singh 2200
5 Playstation Max Miller 70
6 Sandwich Maker Beccaa Moss 28
7 Pen Drive 16GB Opal Kole 12
8 Headphone Reed Koch 38
9 HP Laptop i5 Reed Koch 1300
10 Titanic Bluray DiskBeccaa Moss 78

10 rows selected.
```

SQL SELF Join Example

SQL SELF Join Example Explanation

Above example we are use A and B table alias name.

Inner Join to join predicate condition (A.customer_name =

B.customer_name) customer_name only those whose are in same customer_name in Table A or Table B. It's mean cross customer name are eliminate.

And last WHERE clause A.order_id < B.order_id means eliminate pairings where order_id Table A is not less than to order_id of Table B.