### JOINS:

It is the process of retrieving the data from multiple tables simultaneously. This know as joins.

# **Types Of Joins:**

- 1. Cartesian Join/Cross join
- 2. Inner Join/Equi Join
- 3. Outer Join

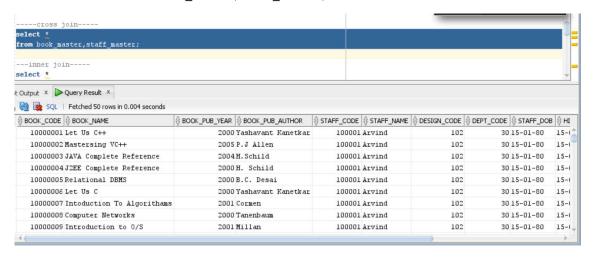
Left Outer Join Right Outer Join Full Outer Join

- 4. Self Join
- 5. Natural Join

**Cross Join**: In cross Join the record of one table will be merged with all the record of another table and so on.

SYNTAX:

SELECT COLUMN\_NAME FROM TABLE\_NAME1,TABLE\_NAME2;



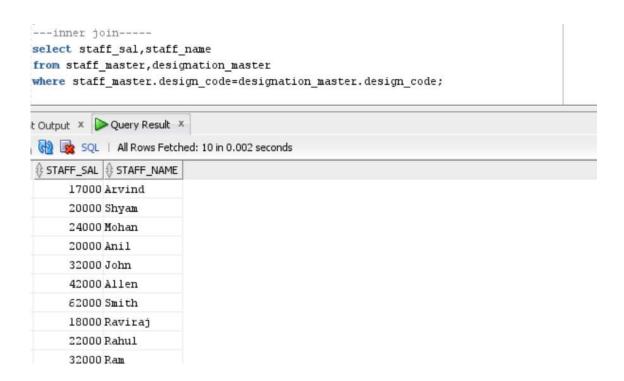
## Inner Join/Equi join:

Inner Join is used for matching records. To obtain matching records we use a join condition

SYNTAX: SELECT COLUMN\_NAME

FROM TABE\_NAME1,TABLE\_NAME2

WHERE < JOIN CONDITION>;



OUTER JOIN: Outer Join are used to obtain unmatched Records.

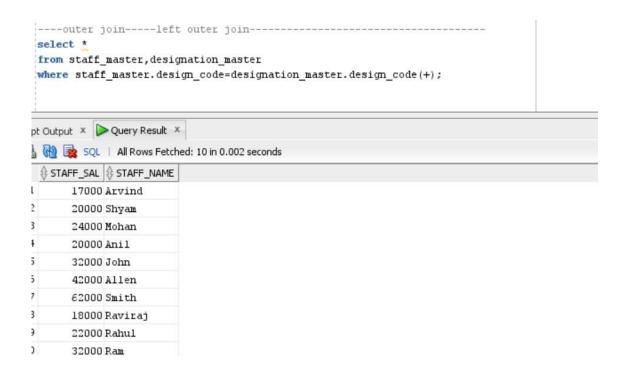
#### **LEFT OUTER JOIN:**

SYNTAX: Left Outer Join are used to obtain unmatched records from the left table along with matching records.

SELECT COLUMN\_NAME

FROM TABLE\_NAME1, TABLE\_NAME2

WHERE TABLE\_NAME.COL\_NAME=TABLE\_NAME2.COL\_NAME(+);



#### **RIGHT OUTER JOIN:**

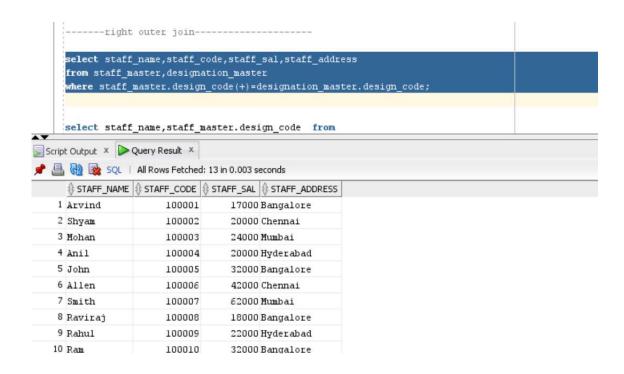
Right outer join Is used to obtain unmatched records from the right table along with matching the records.

#### SYNTAX:

SELECT COLUMN\_NAME

FROM TABLE\_NAME1,TABLE\_NAME2

WHERE TABLE\_NAME.COL\_NAME(+)=TABLE\_NAME2.COL\_NAME;

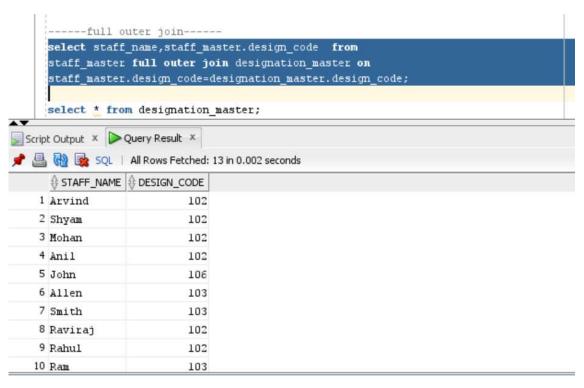


FULL OUTER JOIN: It will retrieve matched records + all records from left table

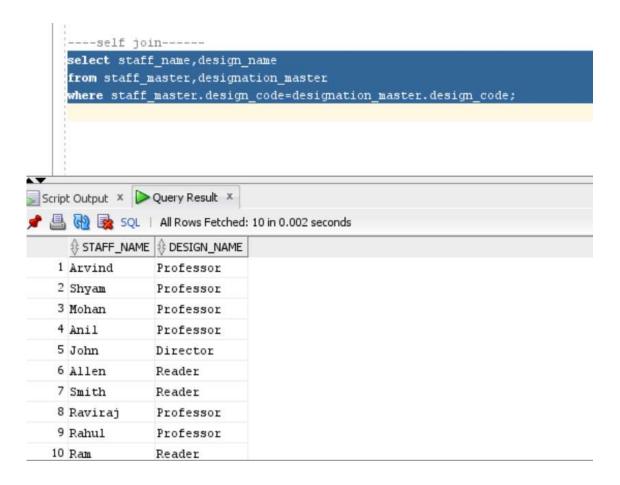
SYNTAX: SELECT COLUNM\_NAME

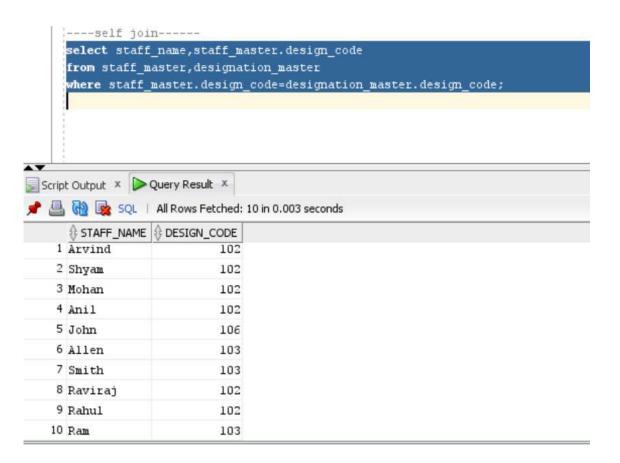
FROM TABLE\_NAME1 FULL OUTER JOIN TABLE\_NAME2

ON <JOIN\_CONDITION>;



SELF JOIN: Joining the table by itself is know as self join.





NATURAL JOIN: Natural join behaves like a inner join.if there is a relation present between tables (pk,fk).

```
select staff_name,design_name
from staff_master,designation_master;
```

