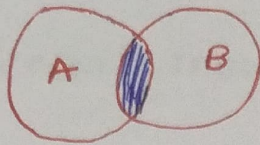


1. Inner Join = returns records that have matching values in both tables.
(A ∩ B)



Syntax:

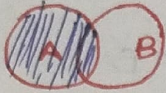
SELECT column(s)

FROM tableA

INNER JOIN tableB

ON tableA.col_name = tableB.col_name;

2. Left Join = returns all records that from the left table, and the matched records from the right table.



Syntax:

SELECT column(s)

FROM tableA

LEFT JOIN tableB

ON tableA.col_name = tableB.col_name;

(A is dominant)

Eg:

Stud_id	name
101	adam
102	bob
103	casey

Stud_id	course
102	english
105	math
103	science
107	computer science

Result:

Stud_id	name	course
101	adam	null
102	bob	english
103	casey	science

3. Right Join

Syntax:

SELECT column(s)

FROM tableA

RIGHT JOIN tableB

ON tableA.col_name = tableB.col_name;

(B is dominant)

4. Full Join : Left Join ∪ Right join

5. Left Exclusive Join where b.id is null.

6. Right Exclusive Join where a.id is null.

7. Self join

Syntax:

SELECT column(s)

FROM table as a

JOIN table as b

ON a.col_name = b.col_name;

8. Union

Syntax:

SELECT column(s) FROM tableA

UNION ← Remove duplicate

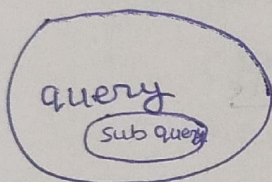
SELECT column(s) FROM tableB

9. UNION ALL

} → same
ONLY CONTAINS DUPLICATE
UNION ALL

SQL Sub Queries (nested query)

It involves 2 select statements



Syntax:

SELECT column(s)

FROM table_name

WHERE col_name operator

(Subquery);

normal but nested

Eg: SELECT name, marks

FROM student

WHERE marks > (SELECT AVG(marks) FROM student);

Eg: SELECT MAX(marks)

FROM student

WHERE city = "Mumbai";

VIEWS: A view is a virtual table based on the result set of an SQL statement.

CREATE VIEW view1 AS

SELECT rollno, name FROM student,

SELECT * FROM view1;