SAL JOINS SHORT NOTES

SQ joins:

- From two or more tables, based on a common field between them.
- The join clause allows us to retrieve data from two or more related tables into a meaningful result set.
- · We can join the table using a SELECT statement and a join condition.

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Types of Sq1 joins:

- INNER JOIN
- · LEFT (OUTER) JOIN
- · RIGHT (OUTER) JOIN
- . FULL (OUTER) JOIN

Consider the two tables below:-

Student Table

Std-id	Std-Name	Contact	Address
101	Yadnyesh	8852 4562 3221	PUNE
102	Rushikesh	4384 2250 1220	DELHI
103	Sahil	8525 2141 3663	CHENNAI
104	Sanil	9632 1258 7458	NOIDA
105	Mrudul	17894 5214 3698	MUMBAI
106	Siddharth	1234 5678 9632	MUMBAI

Course Pable.

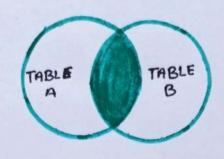
Course_id	Student_id
1	101
2	102
4	104
4	105
5	109
6	108
3	107

INNER JOIN -

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- The inner join is used to select 911 matching rows or columns in both tables or as long as defined condition is valid in SQL.
- The INNER JOIN Keyword selects all rows from the tables as long as the condition is satisfied.

Continue ---



Syntax:

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SELECT column_name(S)

FROM table1
INNER JOIN table2

ON table 1. column_name = table 2. column_name;

- · table 1: First table.
- · table 2: Second table
- · matching_ column: column common to both the tables.

Example:

Input

SELECT student. std_id, Student. std_name,

Course. Course_id

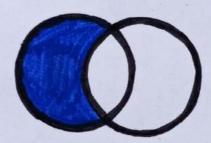
FROM student INNER JOIN Course

ON Student. Std_id = Course. Student_id;

Result: Number of Records: 4	
Std_id	Std_name_
101	Yadnyesh
102	Rushikesh
104	SAHIL
105	Myydul

LEFT (OUTER) Join

- The LEFT JOIN is used to retrieve all records from the left table (table 1) and the matched rows or columns from the right table (table 2).
- If both tables do not contain any matched rows or columns, it returns the NULL.
- · LEFT JOIN IS also known as LEFT DUTER JOIN.



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Syntax:

SELECT table 1. column 1, table 1. Column 2, table 2. Column 1,.....

FROM table 1

LEFT JOIN table 2

ON table 1. matching _ column = table 2. matching _ column;

Example:

Input

SELECT Std_name, course. course_ID

FROM Student

LEFT JOIN Course

ON course. student_id = student. Std_id;

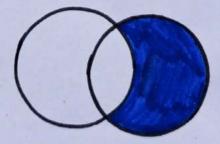
continue ->

Result:		
Number of Records: 6		
std_name	course_id	
Yadnyesh	1	
Rushikesh	2	
SAHIL	null	
SAHIL	4	
Myudul	4	
Siddharth	null	

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RIGHT (DUTER) JOIN

- The SQL right join returns all the values from the rows of the table.
- It is also includes the matched values from left table but if there is no matching in both tables, it returns NULL.
- · RIGHT JOIN IS 9150 KNOWN 95 RIGHT OUTER JOIN.



Syntax:

SELECT table 1. Column 1, table 2. Column 2....

FROM table 1

RIGHT JOIN table 2

ON table 1. Column _ field = table 2. column _ field;

Continue ---

Output

SOL Statement:

SELECT std_name, Course. Course_id
from Student RIGHT join course
On Student. Std_id = Course. Student_id;

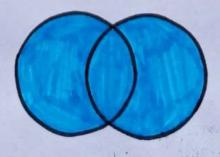
Result:	
Number of Records: 7	
Std-name	Course_id.
Yadnyesh	
Rushikesh	2
SAHIL	4
Myudul	4
null	5
null	6
null	3

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- FULL (OUTER) JOIN

- FULL JOIN creates the result Set by combining results of both LEFT JOIN and RIGHT JOIN.
- The joined tables return all records from both the tables and if no matches are found in the table, it places NULL. It is also called a FULL OUTER JOIN.



Syntax:

SELECT table 1. column 1, table 2. column 2....

FROM table 1

RIGHT JOIN table 2

ON table 1. column _ field = table 2. column _ field;

Example.

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SOL Statement:

SELECT Std_name, course. course_id
From Course FULL | join Student
on Student. Std_id = Course. Student_id;

Number of Rewords = 8	
std_name	Course_id
Yadnyesh	
Rushikesh	2
Sahii	null .
Sahil	4
Siddharth	null
null	5
null	6
null	3