Join Queries

Aim:

To perform manipulate records of table using nested queries in SQL.

Joins

Used to combine the data spread across tables

Syntax

SELECT table 1. column, table 2. column

FROM table 1, table 2

WHERE table 1.column 1 = table 2.column 2;

- A JOIN Basically involves more than one Table to interact with.
- Where clause specifies the JOIN Condition.
- Ambiguous Column names are identified by the Table name.
- If join condition is omitted, then a Cartesian product is formed. That is all rows in the first table are joined to all rows in the second table

Types of Joins

• Inner Join (Simple Join): It retrieves rows from 2 tables having a common column.

Equi Join : A join condition with relationship = .

• Non Equi Join : A join condition with relationship other than = .

Self Join
 Joining of a table to itself

Outer Join : Returns all the rows returned by simple join as well as

those rows from one table that do not match any row from the other table. The symbol (+) represents outer joins.

Create a table Student and Course and apply all types of join and wrte the output

Student

ROLL_NO	NAME	ADDRESS	Age	
1	Ram	Delhi	18	:
2	RAMESH	GURGAON	18	
3	SUJIT	ROHTAK	20	
4	SURESH	Delhi	18	

COURSE_ID	ROLL_NO
1	1
2	2
2	3
3	4

Q1) List *empno*, *ename*, *deptno* from *emp* and *dept* tables. **SOL>**

Q2) Create a table Salgrade with the following data.

Gra	Hisal	
1	700	1400
2	1401	2000
3	2001	5000
4	5001	9999

Now, list ename, sal and salgrade of all employees.

SQL>

Q3) List ename, deptno and deptname from emp and dept tables, including the rows of emp table that does not match with any of the rows in dept table.
SQL>

Q4) List ename, deptno and deptname from emp and dept tables, including the rows of dept table that does not match with any of the rows in emp table.
SQL>

Q5) List the names of the employee with name of his/her manager from *emp* table. SQL>