EX: NO:7 NESTED QUERIES AND JOIN QUERIES

EX: NO: 7A Nested Queries

AIM: To execute and verify the SQL commands for Nested Queries.

OBJECTIVE:

Nested Query can have more than one level of nesting in one single query. An SQL nested query is a SELECT query that is nested inside a SELECT, UPDATE, INSERT, or DELETE SQL query.

PROCEDURE

User tables in Experiment-5:

- A) Display the name of emp who is getting maximum salary. SQL> select ename, sal from EMP where sal in (select max(sal) from EMP);
- B) Display the name of emp who is getting minimum salary. SQL> select ename, sal from EMP where sal in (select min(sal) from EMP);
- C) Display the Second maximum salary from the table EMP. SQL> Select max(sal) from EMP where sal<(select max(sal) from EMP);
- D) From the emp table, select the deptno and maximum departmental salary (sal) for all departments whose maximum salary is less than the average salary for all employees.

SQL> select deptno,max(salary) from employee group by deptno having max(salary) < (select avg(salary) from employee);

EX: NO: 7 B - JOINS

AIM: To execute and verify the SQL commands using Join queries.

OBJECTIVE:

SQL joins are used to query data from two or more tables, based on a relationship between certain columns in these tables.

PROCEDURE

1. Create a table 'empnew' with the following attributes:

empno number(3) ename varchar(20) deptname varchar(10)

2. Create a table 'deptnew' with the following attributes:

deptname varchar(10) depthod varchar(20)

3. Insert the following tuples for 'empnew' table

EMPNO ENAME DEPTNAME 101 sravan ce 103 saikumar ce 401 charan ece 406 chaitanya ece 501 jagadeesh aiml 509 srilatha aiml 601 swapna iot 605 meena iot

4. Insert the following tuples for 'deptnew' table

DEPTNAME DEPTHOD

ce saikumar me rajasekhar eee neeraj ece chaitanya aiml Srilatha

SQL COMMANDS

INNER JOIN:

INNTER JOIN SYNTAX

SQL>SELECT column_name(s)
FROM table_name1
INNER JOIN table_name2
ON table_name1.column_name=table_name2.column_name

INNTER JOIN EXAMPLE

SQL> select empnew.empno,empnew.ename,deptnew.deptname from empnew INNER JOIN deptnew on empnew.deptname=deptnew.deptname;

LEFT JOIN SYNTAX

SQL> SELECT column_name(s)
FROM table_name1
LEFT JOIN table_name2
ON table_name1.column_name=table_name2.column_name

LEFT JOIN EXAMPLE

SQL> select empnew.empno,empnew.ename,deptnew.deptname from empnew LEFT OUTER JOIN deptnew on empnew.deptname=deptnew.deptname;

RIGHT OUTTER JOIN:

RIGHT OUTTER JOIN SYNTAX

SQL> SELECT column_name(s)
FROM table_name1
RIGHT JOIN table_name2
ON table_name1.column_name=table_name2.column_name

RIGHT OUTTER JOIN EXAMPLE

SQL> select empnew.empno,empnew.ename,deptnew.deptname from empnew RIGHT OUTER JOIN deptnew on empnew.deptname=deptnew.deptname;

FULL OUTTER JOIN:

FULL OUTER JOIN SYNTAX

SQL>SELECT column_name(s)
FROM table_name1
FULL JOIN table_name2
ON table_name1.column_name=table_name2.column_name

FULL OUTER JOIN EXAMPLE

select empnew.empno,empnew.ename,deptnew.deptname from empnew FULL OUTER JOIN deptnew on empnew.deptname=deptnew.deptname;