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| **Ex.No.3** | **NESTED QUERIES** |

**AIM**

To execute nested queries.

**CREATING THE TABLE**

SQL> create table students(rollno number(10) primary key,stname varchar(15),stmaths number(3),stenglish number(3));

Table created.

**INSERTING VALUES TO THE TABLE**

SQL> insert into students values(&rollno,'&stname',&stmaths,&stenglish);

Enter value for rollno: 101

Enter value for stname: Naveena

Enter value for stmaths: 85

Enter value for stenglish: 90

old 1: insert into students values(&rollno,'&stname',&stmaths,&stenglish)

new 1: insert into students values(101,'Naveena',85,90)

1 row created.

SQL> insert into students values(&rollno,'&stname',&stmaths,&stenglish);

Enter value for rollno: 102

Enter value for stname: Pooviga

Enter value for stmaths: 75

Enter value for stenglish: 68

old 1: insert into students values(&rollno,'&stname',&stmaths,&stenglish)

new 1: insert into students values(102,'Pooviga',75,68)

1 row created.

SQL> insert into students values(&rollno,'&stname',&stmaths,&stenglish);

Enter value for rollno: 103

Enter value for stname: Aswathy

Enter value for stmaths: 85

Enter value for stenglish: 75

old 1: insert into students values(&rollno,'&stname',&stmaths,&stenglish)

new 1: insert into students values(103,'Aswathy',85,75)

1 row created.

SQL> insert into students values(&rollno,'&stname',&stmaths,&stenglish);

Enter value for rollno: 104

Enter value for stname: Thirshna

Enter value for stmaths: 68

Enter value for stenglish: 70

old 1: insert into students values(&rollno,'&stname',&stmaths,&stenglish)

new 1: insert into students values(104,'Thirshna',68,70)

1 row created.

SQL> insert into students values(&rollno,'&stname',&stmaths,&stenglish);

Enter value for rollno: 105

Enter value for stname: Dharshini

Enter value for stmaths: 80

Enter value for stenglish: 55

old 1: insert into students values(&rollno,'&stname',&stmaths,&stenglish)

new 1: insert into students values(105,'Dharshini',80,55)

1 row created.

SQL> select \* from students;

ROLLNO STNAME STMATHS STENGLISH

---------- --------------- ---------- ----------

101 Naveena 85 90

102 Pooviga 75 68

103 Aswathy 85 75

104 Thirshna 68 70

105 Dharshini 80 55

**INDEPENDENT SUB-QUERY**

SQL> select rollno,stname from students where rollno in (select rollno from students where stmaths >80);

ROLLNO STNAME

---------- ---------------

101 Naveena

103 Aswathy

SQL> select rollno,stname from students where rollno in (select rollno from students where stenglish <70);

ROLLNO STNAME

---------- ---------------

102 Pooviga

105 Dharshini

SQL> select stname,stmaths,stenglish from students where rollno in (select rollno from students where rollno>103);

STNAME STMATHS STENGLISH

--------------- ---------- ----------

Thirshna 68 70

Dharshini 80 55

SQL> select rollno, stname,stmaths from students where rollno in (select rollno from students where stenglish<80);

ROLLNO STNAME STMATHS

---------- -------------- ----------

102 Pooviga 75

103 Aswathy 85

104 Thirshna 68

105 Dharshini 80

SQL> select rollno, stname,stenglish from students where rollno in (select rollno from students where stmaths>75);

ROLLNO STNAME STENGLISH

---------- --------------- ----------

101 Naveena 90

103 Aswathy 75

105 Dharshini 55

**CO-RELATED SUB-QUERY**

SQL> select stname from students o where stmaths=(select stmaths from students I where o.rollno=I.rollno and stmaths>75);

STNAME

---------------

Naveena

Aswathy

Dharshini

SQL> select rollno,stname,stmaths from students o where stenglish=(select stenglish from students I where o.rollno=I.rollno and stenglish>70);

ROLLNO STNAME STMATHS

---------- --------------- ----------

101 Naveena 85

103 Aswathy 85

SQL> select stname,stmaths,stenglish from students o where rollno=(select rollno from students I where o.rollno=I.rollno and rollno>103);

STNAME STMATHS STENGLISH

--------------- ---------- ----------

Thirshna 68 70

Dharshini 80 55

SQL> select rollno,stname,stenglish from students o where stmaths=(select stmaths from students I where o.rollno=I.rollno and stmaths>75);

ROLLNO STNAME STENGLISH

---------- --------------- ----------

101 Naveena 90

103 Aswathy 75

105 Dharshini 55

SQL> select rollno,stname,stmaths from students o where stenglish=(select stenglish from students I where o.rollno=I.rollno and stenglish<80);

ROLLNO STNAME STMATHS

---------- --------------- ----------

102 Pooviga 75

103 Aswathy 85

104 Thirshna 68

105 Dharshini 80

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| CONTENTS | MARKS ALLOTED | MARKS OBTAINED |
| Aim , Algorithm, SQL,PL/SQL | 30 |  |
| Execution and Result | 20 |  |
| Viva | 10 |  |
| Total | 60 |  |

**RESULT**

Thusnested queries were executed.