Ex.No.3	NESTED QUERIES

AIM

To execute nested queries.

CREATING THE TABLE

SQL> create table student(rollno number(10) primary key,name varchar(15),maths number(3),english number(3));

Table created.

INSERTING VALUES TO THE TABLE

SQL> insert into student values(&rollno,'&name',&maths,&english);

Enter value for rollno: 68

Enter value for name: jayashangav

Enter value for maths: 90

Enter value for english: 80

old 1: insert into student values(&rollno,'&name',&maths,&english)

new 1: insert into student values(68,'jayashangav',90,80)

1 row created.

SQL> insert into student values(&rollno,'&name',&maths,&english);

Enter value for rollno: 73

Enter value for name: kavin

Enter value for maths: 70

Enter value for english: 65

old 1: insert into student values(&rollno,'&name',&maths,&english)

new 1: insert into student values(73,'kavin',70,65)

1 row created.

```
SQL> insert into student values(&rollno,'&name',&maths,&english);
Enter value for rollno: 76
Enter value for name: jegan
Enter value for maths: 80
Enter value for english: 75
old   1: insert into student values(&rollno,'&name',&maths,&english)
new   1: insert into student values(76,'jegan',80,75)
1 row created.

SQL> insert into student values(&rollno,'&name',&maths,&english);
Enter value for rollno: 80
Enter value for name: kamalesh
Enter value for maths: 68
Enter value for english: 70
old   1: insert into student values(&rollno,'&name',&maths,&english)
new   1: insert into student values(80,'kamalesh',68,70)
1 row created.

SQL> insert into student values(&rollno,'&name',&maths,&english);
Enter value for rollno: 82
Enter value for name: karthik
Enter value for maths: 75
Enter value for english: 60
old   1: insert into student values(&rollno,'&name',&maths,&english)
new   1: insert into student values(82,'karthik',75,60)
1 row created.
```

SQL> select * from student;

ROLLNO	NAME	MATHS	ENGLISH
68	jayashangav	90	80
73	kavin	70	65
76	jegan	80	75
80	kamalesh	68	70
82	karthik	75	60

INDEPENDENT SUB-QUERY

SQL> select rollno,name from student where rollno in (select rollno from student where maths >80);

ROLLNO	NAME
68	jayashangav

SQL> select rollno,name from student where rollno in (select rollno from student where english <70);

ROLLNO	STNAME
73	kavin
82	karthik

SQL> select name,maths,english from student where rollno in (select rollno from student where rollno>76);

NAME	MATHS	ENGLISH
kamalesh	68	70
karthik	75	60

SQL> select rollno, name,maths from student where rollno in (select rollno from student where english<80);

ROLLNO	NAME	MATHS
73	kavin	70
76	jegan	80
80	kamalesh	68
82	karthik	75

SQL> select rollno, name,english from student where rollno in (select rollno from student where maths>75);

ROLLNO	NAME	ENGLISH
68	jayashangav	80
76	jegan	75

CO-RELATED SUB-QUERY

SQL> select name from student o where maths=(select maths from student I where o.rollno=I.rollno and maths>70);

NAME

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jayashangav

jegan

karthik

SQL> select rollno,name,maths from student o where english=(select english from student I where o.rollno=I.rollno and english>65);

ROLLNO	NAME	MATHS
68	jayashangav	90
76	jegan	80
80	kamalesh	68

SQL> select name,maths,english from student o where rollno=(select rollno from student I where o.rollno=I.rollno and rollno>73);

NAME	MATHS	ENGLISH
jegan	80	75
kamalesh	68	70
karthik	75	60

SQL> select rollno,name,english from student o where maths=(select maths from student I where o.rollno=I.rollno and maths>70);

ROLLNO	NAME	ENGLISH
68	jayashangav	80
76	jegan	75
82	karthik	60

SQL> select rollno,name,maths from student o where english=(select english from student I where o.rollno=I.rollno and english<80);

ROLLNO	NAME	MATHS
73	kavin	70
76	jegan	80
80	kamalesh	68
82	karthik	75

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

RESULT

Thus nested queries were executed.