

Ex.No.3	NESTED QUERIES
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AIM

To execute nested queries.

CREATING THE TABLE

```
SQL> create table exp3(roll_no number(6) primary key,name varchar(15),marks number(3),did number(3));
```

Table created.

INSERTING VALUES TO THE TABLE

```
SQL> insert into exp3 values(75,'Kabesh',59,2);
```

1 row created.

```
SQL> insert into exp3 values(76,'kamalesh',67,1);
```

1 row created.

```
SQL> insert into exp3 values(73,'Jegan',89,3);
```

1 row created.

```
SQL> insert into exp3 values(74,'Sanjay',75,1);
```

1 row created.

```
select * from exp3;
```

ROLL_NO	NAME	MARKS	DID
-----	-----	-----	-----
70	Kabesh	59	2
76	kamalesh	67	1
73	Jegan	89	3
74	Sanjay	75	1

INDEPENDENT SUB-QUERY

```
SQL> select roll_no,name from exp3 where roll_no in(select roll_no from student where marks>60);
```

ROLL_NO	NAME
-----	-----
76	kamalesh
73	Jegan
74	Sanjay

```
SQL> select roll_no,name from exp3 where roll_no in(select roll_no from student where did>1);
```

ROLL_NO	NAME
-----	-----

75 kabesh

73 Jegan

```
SQL> select name,marks,roll_no from exp3 where roll_no in(select roll_no from student where marks>60);
```

NAME	MARKS	ROLL_NO
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kamalesh	67	76
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Jegan	89	73
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Sanjay	75	74
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SQL> update exp3 set marks=78 where did in(select did from exp3 where did=1);

2 rows updated.

SQL> select * from exp3;

SQL> delete exp3 where did in(select did from exp3 where did=1);

2 rows deleted.

SQL> select * from exp3;

ROLL_NO	NAME	MARKS	DID
-----	-----	-----	-----
73	Jegan	89	3
75	Kabesh	59	2

CO-RELATED SUB-QUERY

SQL> select roll_no,name from exp3 o where marks=(select marks from exp3 i where o.roll_no=i.roll_no and marks>60);

ROLL_NO NAME

76 kamalesh

73 Jegan

74 Sanjay

```
SQL> update exp3 o set roll_no=70 where marks=(select marks from exp3 i where  
o.roll_no=i.roll_no and marks<60);
```

1 row updated.

```
SQL> select * from exp3;
```

ROLL_NO	NAME	MARKS	DID
-----	-----	-----	-----
70	Kabesh	59	2
76	kamalesh	67	1
73	Jegan	89	3
74	Sanjay	75	1

```
SQL> delete exp3 o where marks=(select marks from exp3 i where o.roll_no=i.roll_no and  
marks<60);
```

1 row deleted.

```
SQL> select * from exp3;
```

ROLL_NO	NAME	MARKS	DID
-----	-----	-----	-----
76	kamalesh	67	1
73	Jegan	89	3
74	Sanjay	75	1

SQL> select roll_no,name from exp3 o where marks=(select marks from exp3 i where o.roll_no=i.roll_no and marks>60) order by roll_no;

ROLL_NO	NAME
73	Jegan
74	Sanjay
76	kamalesh

SQL> select roll_no,name from exp3 o where exists(select marks from exp3 i where o.roll_no=i.roll_no and marks>60);

ROLL_NO	NAME
73	Jegan
74	Sanjay
76	kamalesh

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

RESULT

Thus nested queries were executed.