SQL> select *from stafff;

EMPID	FIRST_NAME	LAST_NAME	PHONENO	SALARY DEPARTMENTID
1	ramesh	kumar	7003616607	210000 60
2	suresh	kumar	7003616607	210000 61
3	karuna	kumari	7003616677	220000 62
4	paul	adam	7003616777	230000 62

Any

- The Oracle ANY operator is used to compare a value to a list of values or result set returned by a subquery.
- The ANY operator must be preceded by a comparison operator such as =, !=, >, >=,<, <=
- The list or subquery must be surrounded by the parentheses

Syntax

operator ANY (v1, v2, v3)

operator ANY (subquery)

```
SELECT *
FROM
table_name
WHERE
c > ANY (
v1,
v2,
v3
);
```

```
FROM
table_name
WHERE
c > v1
OR c > v2
OR c > v3;
```

```
SQL> select first name from stafff
     where salary > any(100,2000000,3000000);
FIRST NAME
ramesh
suresh
karuna
paul
          SQL> select first name from stafff
               where salary > any(select (salary) from stafff);
          FIRST NAME
          paul
          karuna
```

ALL

- operator ALL (v1, v2, v3)
- operator ALL (subquery)
- The ALL operator must be preceded by an comparison operator such as =, != >,>=, <, <= and followed by a list or subquery.
- The list or subquery must be surrounded by the parentheses.

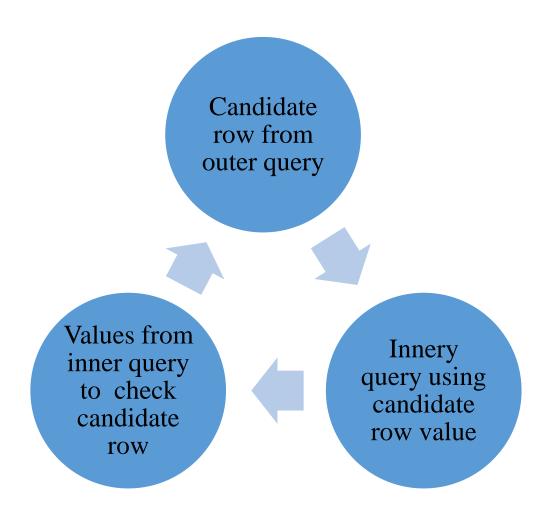
```
SELECT
                                  SELECT
  *
                                    *
                                  FROM
FROM
 table_name
                                    table_name
WHERE
                                  WHERE
  c > ALL (
                                    c > v1
                                    AND c > v2
   v1,
                                    AND c > v3;
   v2,
   v3
```

```
SQL> select first name from stafff
        where salary > all(100,210000,30000);
 FIRST_NAME
 karuna
 paul
SQL> select first name from stafff
     where salary > all(select avq(salary)-10000 from stafff group by salary);
FIRST_NAME
```

paul

Correlated subquery

• Each subquery is executed once for every row of the outer query.



```
SQL> select first_name, salary from stafff s
   2 where salary>(select avg(salary) from stafff
   3 where departmentid =s.departmentid)
   4 order by salary;
FIRST NAME SALARY
```

230000

paul

Sub query in select clause

```
SQL> select first_name, (select avg(salary) from stafff s where s.departmentid=
  2 s1.departmentid) from stafff s1;
```

FIRST_NAME	(SELECTAUG(SALARY)FROMSTAFFFSWHERES.DEPARTMENTID=S1.DEPARTMENTID)
ramesh	210000
suresh	210000
karuna	225000
paul	225000

subquery in the FROM clause

Inline view

a SELECT statement in the FROM-clause of another SELECT statement to create a temporary table that could be referenced by the SELECT statement

Lab exercise:

- Find the senior most hod in institute (Without using Join).
- Find the course taught by senior most professor in Biology department
- Report department wise, the course that has maximum number of prerequisite
- Report faculty-wise average enrollments for course taught in all the semesters during 2002-2004
- What are the total enrollments in the course of the comp. sci. department in Even 2004.