# Database Management Systems

**18CSC303J**

**Faculty : Dr.G.Senthil Kumar**

Venkata Naga Sai Ram Nomula
RA1911033010021
CSE_SWE L2

## Exp 4 - Advanced SELECT Commands

**Aim:**

To implement advanced Select commands.

```
SQL*Plus: Release 11.2.0.4.0 Production on Mon Feb 21 08:29:56 2022

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Enter user-name: RA1911033010021/RA1911033010021@drsenthilkumar-l2.c6hfisyr3ugy.us-east-1.rds.amazonaws.com:1521/l2

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

SQL> spool on
SQL> spool week4adv.lst
SQL> create table inventory(store varchar2(15), sales number(6), tax_date date);

Table created.
```

**Commands:**

EXISTS – Used in combination with a subquery.
SELECT from WHERE EXISTS (SELECT from condition);

CASE – Used to find a value by passing over conditions whenever any condition satisfies the statement.
SELECT , CASE [expression] WHEN condition1 then value1 from ;

FETCH – Used to fetch the next row in the table.
SELECT from FETCH FIRST 3 ROWS ONLY

INTERSECT – Used to show distinct elements in two records in the table.
SELECT from WHERE condition INTERSECT SELECT from WHERE condition;

MINUS – Used to show a unique element from the 1st table.
SELECT from WHERE condition MINUS SELECT from WHERE condition;

UNION – Used to combine two or more records in the table.
SELECT from WHERE condition UNION SELECT from WHERE condition;

```
SQL> insert into inventory values('sairam', 11,to_date('2002-4-14','yyyy-mm-dd'));

1 row created.

SQL> insert into inventory values('dush', 29,to_date('2020-1-29','yyyy-mm-dd'));

1 row created.

SQL> select * from inventory;

STORE               SALES TAX_DATE
--------------- ---------- ---------
sairam                  11 14-APR-02
dush                    29 29-JAN-20

SQL> insert into inventory values('roe', 170,to_date('2019-8-24','yyyy-mm-dd'));

1 row created.

SQL> insert into inventory values('ab', 222,to_date('2014-2-02','yyyy-mm-dd'));

1 row created.

SQL> create table geo(reg_name varchar2(10), store varchar2(15));

Table created.

SQL> insert into geo values('east','sairam');

1 row created.

SQL> insert into geo values('west','dush');

1 row created.

SQL> insert into geo values('north','roe');

1 row created.

SQL> insert into geo values('south','ab');

1 row created.
```

```
SQL> select * from geo;

REG_NAME   STORE
---------- ---------------
east       sairam
west       dush
north      roe
south      ab

SQL> select * from inventory fetch first 3 rows only;

STORE               SALES TAX_DATE
--------------- ---------- ---------
sairam                  11 14-APR-02
dush                    29 29-JAN-20
roe                    170 24-AUG-19

SQL> select * from inventory fetch first 50 percent rows only;

STORE               SALES TAX_DATE
--------------- ---------- ---------
sairam                  11 14-APR-02
dush                    29 29-JAN-20

SQL> insert into geo values('east','lavan');

1 row created.

SQL> select * from geo;

REG_NAME   STORE
---------- ---------------
east       sairam
west       dush
north      roe
south      ab
east       lavan

SQL> select * from inventory where exists (select * from geo where geo.store = inventory.store);

STORE               SALES TAX_DATE
--------------- ---------- ---------
sairam                  11 14-APR-02
dush                    29 29-JAN-20
roe                    170 24-AUG-19
ab                     222 02-FEB-14
```

```
SQL> select store from inventory where exists(select * from geo where geo.store = inventory.store and inventory.sales > 100);

STORE
---------------
roe
ab

SQL> select store from inventory where exists(select * from geo where geo.store = inventory.store and inventory.sales < 200);

STORE
---------------
sairam
dush
roe

SQL> select store from inventory where exists(select * from geo where geo.store = inventory.store and inventory.sales = 11);

STORE
---------------
sairam

SQL> select store, case store when 'sairam' then sales*2 when 'dush' then sales*3 else sales end "new-sales" ,tax_date from inventory;

STORE           new-sales TAX_DATE
--------------- ---------- ---------
sairam                 22 14-APR-02
dush                   87 29-JAN-20
roe                   170 24-AUG-19
ab                    222 02-FEB-14

SQL> select store, case store when 'sairam' then sales*6 when 'dush' then sales*3 else sales end "new-sales" ,tax_date from inventory;

STORE           new-sales TAX_DATE
--------------- ---------- ---------
sairam                 66 14-APR-02
dush                   87 29-JAN-20
roe                   170 24-AUG-19
ab                    222 02-FEB-14
```

```
SQL> create sequence store_id minvalue 1 start with 1 increment by 1 cache 15;

Sequence created.

SQL> alter table inventory add storeid number(4);

Table altered.

SQL> select * from inventory;

STORE               SALES TAX_DATE     STOREID
--------------- ---------- --------- ----------
sairam                 11 14-APR-02
dush                   29 29-JAN-20
roe                   170 24-AUG-19
ab                    222 02-FEB-14

SQL> insert into inventory (store,sales,tax_date,storeid) values ('lavan', 1000, to_date('2002-01-14', 'yyyy-mm-dd'), store_id.nextval);

1 row created.

SQL> select * from inventory;

STORE               SALES TAX_DATE     STOREID
--------------- ---------- --------- ----------
sairam                 11 14-APR-02
dush                   29 29-JAN-20
roe                   170 24-AUG-19
ab                    222 02-FEB-14
lavan                1000 14-JAN-02          1

SQL> drop table inventory;

Table dropped.

SQL> drop table geo;

Table dropped.
```

**RESULT**: Thus, the Select advance commands have been executed successfully.