Group By

```
SQL> select * from employees;

      E_ID E_NAME                    E_AGE   E_SALARY E_JOIN_DA
---------- -------------------- ---------- ---------- ---------
         1 Hermione                     22     500000 01-JAN-18
         2 Harry                        22     450000 02-JAN-18
         3 Ron                          23     400000 03-JAN-18
         4 Voldemort                    35     500000 03-FEB-18
         5 Dumbledore                   88     300000 03-FEB-12

SQL> select * from employees
  2  where e_salary =( select min(e_salary)
  3  from employees);

      E_ID E_NAME                    E_AGE   E_SALARY E_JOIN_DA
---------- -------------------- ---------- ---------- ---------
         5 Dumbledore                   88     300000 03-FEB-12
```

```
SQL> select * from employee;

        ID NAME                 DEPT_NO     SALARY
---------- -------------------- ---------- ----------
         1 Harry                       1     500000
         2 Voldemort                   3     300000
         3 Hermione                    1     600000
         4 Ron                         2     450000
         5 Dumbledore                  2     350000

SQL> select dept_no,min(salary) from employee group by dept_no;

   DEPT_NO MIN(SALARY)
---------- -----------
         1      500000
         2      350000
         3      300000
```

Having Clause

```
SQL> select * from employee;

        ID NAME                 DEPT_NO     SALARY
---------- -------------------- ---------- ----------
         1 Harry                       1     500000
         2 Voldemort                   3     300000
         3 Hermione                    1     600000
         4 Ron                         2     450000
         5 Dumbledore                  2     350000

SQL> select dept_no,min(salary)
  2  from employee group by dept_no
  3  having min(salary)<(select avg(salary)
  4  from employee);

   DEPT_NO MIN(SALARY)
---------- -----------
         2      350000
         3      300000
```

```
SQL> select * from employee;

        ID NAME                      DEPT_NO     SALARY
---------- -------------------- ---------- ----------
         1 Harry                         1     500000
         2 Voldemort                     3     300000
         3 Hermione                      1     600000
         4 Ron                           2     450000
         5 Dumbledore                    2     350000

SQL> select dept_no,min(salary) from employee group by dept_no having count(dept
_no)<=2;

   DEPT_NO MIN(SALARY)
---------- -----------
         1      500000
         2      350000
         3      300000

SQL> select dept_no,min(salary) from employee group by dept_no having count(dept
_no)<=1;

   DEPT_NO MIN(SALARY)
---------- -----------
         3      300000
```

Distinct

```
SQL> select distinct name from employee;

NAME
--------------------
Harry
Voldemort
Hermione
Ron
Dumbledore
```

```
SQL> select * from storeinfo;

S_NAME                 S_SALES S_DATE
-------------------- ---------- ---------
D-Mart                   100000 25-SEP-18
Big Bazar                 50000 17-APR-18
Shopper Stop             250000 23-JUN-18
MegaMart                 350000 15-NOV-18
Croma                    550000 12-DEC-18

SQL> select * from location;

REGION_NAME          S_NAME
-------------------- --------------------
East                 D-Mart
West                 Big Bazar
East                 Shoppers Stop
East                 MegaMart
West                 Croma

SQL> select sum(s_sales) from storeinfo where
  2  s_name in (select s_name from location where
  3  region_name='East');

SUM(S_SALES)
------------
      450000
```

Experiment No 8
Subquery

```
SQL> select * from product;

      P_ID P_NAME                    S_ID UNIT_PRICE PACKAGE
---------- -------------------- ---------- ---------- --------------------
         1 Monitor                     101       4500 Black
         2 KeyBoard                    102        500 Black
         3 Mouse                       103        350 Black
         4 Router                      104       1000 Black
         5 Speaker                     105       2500 Black

SQL> select * from orderitem;

      O_ID UNIT_PRICE   QUANTITU       P_ID
---------- ---------- ---------- ----------
         1        500          3          1
         2       1500          2          2
         3       4500          1          2
         4       5000          4          1
         5       6000          3          1

SQL> select * from product where p_id in
  2  (select p_id from orderitem where quantitu>2);

      P_ID P_NAME                    S_ID UNIT_PRICE PACKAGE
---------- -------------------- ---------- ---------- --------------------
         1 Monitor                     101       4500 Black
```