Practical -1

A)

```
SQL> select * from employee1;

    EMP_NO NAME                 CITY                      SALARY
---------- -------------------- -------------------- ----------
       101 Rajesh               Pune                      15000
       102 Vedant               Mumbai                    15000
       103 Swati                Mumbai                    15000
       104 Samir                Nagpur                    28000
```

```
SQL> select * from employee1 where salary>15000;

    EMP_NO NAME                 CITY                      SALARY
---------- -------------------- -------------------- ----------
       104 Samir                Nagpur                    28000
```

```
SQL> select * from employee1 where City='Mumbai';

    EMP_NO NAME                 CITY                      SALARY
---------- -------------------- -------------------- ----------
       102 Vedant               Mumbai                    15000
       103 Swati                Mumbai                    15000
```

B)

```
SQL> select distinct(salary) from employee1;

    SALARY
----------
     28000
     15000
```

```
SQL> select * from employee1 order by Name;

    EMP_NO NAME                 CITY                      SALARY
---------- -------------------- -------------------- ----------
       101 Rajesh               Pune                      15000
       104 Samir                Nagpur                    28000
       103 Swati                Mumbai                    15000
       102 Vedant               Mumbai                    15000
```

```
SQL> select * from employee1 order by Name desc;

    EMP_NO NAME                 CITY                      SALARY
---------- -------------------- -------------------- ----------
       102 Vedant               Mumbai                    15000
       103 Swati                Mumbai                    15000
       104 Samir                Nagpur                    28000
       101 Rajesh               Pune                      15000
```

C)

```
SQL> select UPPER(Name), LOWER(City) from employee1;

UPPER(NAME)          LOWER(CITY)
-------------------- --------------------
RAJESH               pune
VEDANT               mumbai
SWATI                mumbai
SAMIR                nagpur
```

```
SQL> select INITCAP(City) from employee1;

INITCAP(CITY)
--------------------
Pune
Mumbai
Mumbai
Nagpur
```

```
SQL> select CONCAT (Name,City) from employee1;

CONCAT(NAME,CITY)
----------------------------------------
RajeshPune
VedantMumbai
SwatiMumbai
SamirNagpur
```

```
SQL> select name,Length(Name) from employee1;

NAME                 LENGTH(NAME)
-------------------- ------------
Rajesh                          6
Vedant                          6
Swati                           5
Samir                           5
```

```
SQL> select name,TRIM(LEADING 'S' from name) from employee1;

NAME                 TRIM(LEADING'S'FROMN
-------------------- --------------------
Rajesh               Rajesh
Vedant               Vedant
Swati                wati
Samir                amir
```

Practical – 2

1)

```
SQL> select Users1.Id,Users1.Name,Likes1.Id,Likes1.Choices
  2  from Users1 inner join Likes1
  3  on Users1.Id=Likes1.Id;

        ID NAME                          ID CHOICES
---------- -------------------- ---------- ----------
         3 Maria                         3 Stars
         1 Patrick                       1 Climbing
         1 Patrick                       1 Code
         4 Darwin                        4 Apples
```

```
SQL> select Users1.Id,Users1.Name,Likes1.Id,Likes1.Choices
  2  from Users1 left join Likes1
  3  on Users1.Id=Likes1.Id;

        ID NAME                          ID CHOICES
---------- -------------------- ---------- ----------
         3 Maria                         3 Stars
         1 Patrick                       1 Climbing
         1 Patrick                       1 Code
         4 Darwin                        4 Apples
         5 Elizabeth
         2 Albert

6 rows selected.
```

```
SQL> select Users1.Id,Users1.Name,Likes1.Id,Likes1.Choices
  2  from Users1 right join Likes1
  3  on Users1.Id=Likes1.Id;

        ID NAME                          ID CHOICES
---------- -------------------- ---------- ----------
         1 Patrick                       1 Code
         1 Patrick                       1 Climbing
         3 Maria                         3 Stars
         4 Darwin                        4 Apples
                                         6 Rugby
```

2)

```
SQL> select count(Emp_no) from emp2 where First_name like '%Swa';

COUNT(EMP_NO)
-------------
            0
```

```
SQL> select count(Emp_no) from emp2 where First_name like 'Swa%';

COUNT(EMP_NO)
-------------
            2
```

```
SQL> select count(Emp_no) from emp2 where First_name like '%Raj';

COUNT(EMP_NO)
-------------
            0
```

```
SQL> select sum(Salary) from emp2;

SUM(SALARY)
-----------
     103000

SQL> select avg(Salary) from emp2;

AVG(SALARY)
-----------
      20600
```

3)

```
SQL> select * from emp2 where Salary=(select min(Salary)from emp2);

    EMP_NO FIRST_NAME LAST_NAME  CITY           SALARY
---------- ---------- ---------- ---------- ----------
         1 Rajesh     Jadhav     Pune            15000
         3 Swati      Patil      Mumbai          15000

SQL> select * from emp2 where Salary=(select max(Salary)from emp2);

    EMP_NO FIRST_NAME LAST_NAME  CITY           SALARY
---------- ---------- ---------- ---------- ----------
         4 Smar       Sawant     Magpur          28000
```

Practical – 3

1)

```
SQL> select * from Employee9
  2  ;

       ENO ENAME      JOINING_DA     SALARY
---------- ---------- ---------- ----------
         1 Rajesh     02-02-1998      15000
         2 Swati      04-09-2000      20000
         3 Vedika     03-08-2009      25000
         4 Anikita    06-08-2009      30000

SQL> insert into Employee9 (Eno,Ename,Joining_Date) values (5,'Amit','02-04-2008');

1 row created.

SQL> select * from Employee9;

       ENO ENAME      JOINING_DA     SALARY
---------- ---------- ---------- ----------
         1 Rajesh     02-02-1998      15000
         2 Swati      04-09-2000      20000
         3 Vedika     03-08-2009      25000
         4 Anikita    06-08-2009      30000
         5 Amit       02-04-2008
```

```
SQL> insert into Employee09
  2  select * from Employee9;

5 rows created.
```

```
SQL> select * from Employee09;

       ENO ENAME      JOINING_DA     SALARY
---------- ---------- ---------- ----------
         1 Rajesh     02-02-1998      15000
         2 Swati      04-09-2000      20000
         3 Vedika     03-08-2009      25000
         4 Anikita    06-08-2009      30000
         5 Amit       02-04-2008
```

3)

```
SQL> update Employee09 set Ename='Ankit' where Eno=4;

1 row updated.

SQL> select * from Employee09;

       ENO ENAME      JOINING_DA     SALARY
---------- ---------- ---------- ----------
         1 Rajesh     02-02-1998      15000
         2 Swati      04-09-2000      20000
         3 Vedika     03-08-2009      25000
         4 Ankit      06-08-2009      30000
```

2)

```
SQL> delete from Employee09 where Eno=5;

1 row deleted.

SQL> select * from Employee09;

       ENO ENAME      JOINING_DA     SALARY
---------- ---------- ---------- ----------
         1 Rajesh     02-02-1998      15000
         2 Swati      04-09-2000      20000
         3 Vedika     03-08-2009      25000
         4 Anikita    06-08-2009      30000
```

Practical – 4

```
SQL> create table emp
  2  (Eno int not null,
  3  Ename varchar(10),
  4  Salary int );

Table created.
```

```
SQL> create table Emp1
  2  as
  3  select * from emp;

Table created.
```

```
SQL> create table emp2
  2  as
  3  select Eno,Salary from emp;

Table created.

SQL> desc emp2;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 ENO                                       NOT NULL NUMBER(38)
 SALARY                                             NUMBER(38)
```

```
SQL> create table emp3
  2  as
  3  select * from emp where salary>20000;

Table created.

SQL> select * from emp3;

       ENO ENAME          SALARY
---------- ---------- ----------
         1 Pari            25000
         3 Suriya          30000
```

```
SQL> alter table emp add City varchar(10
  2  );
```

```
SQL> select * from emp;

       ENO ENAME          SALARY CITY
---------- ---------- ---------- ----------
         1 Pari            25000
         2 Naina           20000
         3 Suriya          30000
```

```
SQL> alter table emp drop column City;

Table altered.

SQL> select * from emp;

       ENO ENAME          SALARY
---------- ---------- ----------
         1 Pari            25000
         2 Naina           20000
         3 Suriya          30000
```

```
SQL> rename emp to Employee;

Table renamed.
```

```
SQL> drop table Employee;

Table dropped.
```

```
SQL> drop index index1;

Index dropped.
```

Practical – 5

2) a) , b)

```
SQL> Create index index1 on employee(Ename);

Index created.
```

Practical 5 a),b) and c)

```
SQL> create view employee_view1
  2  as
  3  select * from employee;

View created.

SQL> select * from employee_view1;

       ENO ENAME                    SALARY
---------- -------------------- ----------
         1 Raju                      10000
         2 Ram                       20000
         3 Sam                       30000
```

```
SQL> create view employee_view2
  2  as
  3  select Ename,Salary from employee;

View created.

SQL> select * from employee_view2;

ENAME                     SALARY
-------------------- ----------
Raju                       10000
Ram                        20000
Sam                        30000
```

```
SQL> create view employee_view3
  2  as
  3  select * from employee where Salary<20000;

View created.

SQL> select * from employee_view3;

       ENO ENAME                    SALARY
---------- -------------------- ----------
         1 Raju                      10000
```

Practical 6

```
SQL> select id from Product
  2  union
  3  select id from Sales;

        ID
----------
         1
         2
         3
         4
```

```
SQL> select id from Product
  2  intersect
  3  select id from Sales;

        ID
----------
         1
         2
         3
```

```
SQL> select id from Product
  2  union all
  3  select id from Sales;

        ID
----------
         1
         2
         3
         4
         1
         2
         3

7 rows selected.
```

```
SQL> select id from Product
  2  minus
  3  select id from Sales;

        ID
----------
         4
```

```
SELECT CURRENT_TIMESTAMP;
```

Output

CURRENT_TIMESTAMP
2022-09-16 08:34:06

```
SELECT time(CURRENT_TIMESTAMP);
```

Output

time(CURRENT_TIMESTAMP)
08:35:13

```
SELECT date(CURRENT_TIMESTAMP);
```

Output

date(CURRENT_TIMESTAMP)
2022-09-16