Practical – 9

Q1. Display number of employee with same job.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select job, count(job) from emp group by job;

JOB           COUNT(JOB)
----------    ----------
president              1
manager                3
salesman               4
clerk                  4
analyst                2

SQL>
```

Q2. Display the sum, average, highest and lowest salary of employee grouped by deptno.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select sum(salary), avg(salary), max(salary), min(salary) from emp group by deptno;

SUM(SALARY) AVG(SALARY) MAX(SALARY) MIN(SALARY)
----------- ----------- ----------- -----------
       7450        3725        5000        2450
       9400  1566.66667        2850         950
       7075  2358.33333        3000        1100
       5100        1700        3000         800

SQL>
```

Q3. Display the detail of employee arrange deptno in descending order.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select * from emp order by deptno desc;

    EMPNO ENAME                JOB             MGR HIREDATE      SALARY       COMM     DEPTNO
---------- -------------------- ---------- ---------- --------- ---------- ---------- ----------
     7902 ford                 analyst        7566 03-DEC-81      3000
     7396 smith                clerk          7902 17-DEC-80       800
     7934 miller               clerk          7782 12-JAN-82      1300
     7499 allen                salesman       7698 20-FEB-81      1600        300         30
     7654 martin               salesman       7698 28-SEP-81      1250       1400         30
     7698 blake                manager        8739 01-MAY-81      2850                    30
     7844 turner               salesman       7698 08-SEP-81      1500          0         30
     7521 ward                 salesman       7698 22-FEB-81      1250        500         30
     7900 james                clerk          7698 03-DEC-81       950                    30
     7876 adams                clerk          7788 12-JAN-83      1100                    20
     7788 scott                analyst        7566 09-DEC-82      3000                    20
     7566 jones                manager        7839 02-APR-81      2975                    20
     7782 clark                manager        7839 09-JUN-81      2450                    10
     7839 king                 president           17-NOV-81      5000                    10

14 rows selected.

SQL>
```

Q4. Display the details like ename, empno, job of the employee where in department more than 2 employees are working.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select ename, empno, job from emp where deptno in(select deptno from emp group by deptno having count(deptno) > 2);

ENAME                     EMPNO JOB
------------------------ ---------- ----------
blake                      7698 manager
martin                     7654 salesman
allen                      7499 salesman
turner                     7844 salesman
james                      7900 clerk
ward                       7521 salesman
jones                      7566 manager
scott                      7788 analyst
adams                      7876 clerk

9 rows selected.

SQL>
```

Q5. Find the employees who works in same dept as that of emp scott.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select * from emp where deptno in (select deptno from emp where ename = 'scott');

    EMPNO ENAME                JOB             MGR HIREDATE      SALARY       COMM     DEPTNO
---------- -------------------- ---------- ---------- --------- ---------- ---------- ----------
     7566 jones                manager        7839 02-APR-81      2975                    20
     7788 scott                analyst        7566 09-DEC-82      3000                    20
     7876 adams                clerk          7788 12-JAN-83      1100                    20

SQL>
```

Q6. Display the detail of employee who are from New York.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select * from emp where deptno in(select deptno from dept where location = 'New York');

    EMPNO ENAME                    JOB              MGR HIREDATE     SALARY      COMM      DEPTNO
---------- ------------------------ ---------- ---------- --------- ---------- ---------- ----------
     7839 king                     president          17-NOV-81    5000                    10
     7782 clark                    manager        7839 09-JUN-81    2450                    10

SQL>
```

Q7. Display the detail of job in which the salary of employee who are working in same department, who have salary >= 8000.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select job from emp where deptno in(select deptno from emp group by deptno having sum(salary) >= 8000);

JOB
----------
manager
salesman
salesman
salesman
clerk
salesman

6 rows selected.

SQL>
```

Q8. Select all the detail of employee table as ascending and descending order by empno.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select * from emp order by empno asc;

    EMPNO ENAME                JOB              MGR HIREDATE      SALARY        COMM    DEPTNO
---------- -------------------- ---------- ---------- --------- ---------- ---------- ----------
     7396 smith                clerk           7902 17-DEC-80       800
     7499 allen                salesman        7698 20-FEB-81      1600         300         30
     7521 ward                 salesman        7698 22-FEB-81      1250         500         30
     7566 jones                manager         7839 02-APR-81      2975                     20
     7654 martin               salesman        7698 28-SEP-81      1250        1400         30
     7698 blake                manager         8739 01-MAY-81      2850                     30
     7782 clark                manager         7839 09-JUN-81      2450                     10
     7788 scott                analyst         7566 09-DEC-82      3000                     20
     7839 king                 president            17-NOV-81      5000                     10
     7844 turner               salesman        7698 08-SEP-81      1500           0         30
     7876 adams                clerk           7788 12-JAN-83      1100                     20
     7900 james                clerk           7698 03-DEC-81       950                     30
     7902 ford                 analyst         7566 03-DEC-81      3000
     7934 miller               clerk           7782 12-JAN-82      1300

14 rows selected.

SQL> select * from emp order by empno desc;

    EMPNO ENAME                JOB              MGR HIREDATE      SALARY        COMM    DEPTNO
---------- -------------------- ---------- ---------- --------- ---------- ---------- ----------
     7934 miller               clerk           7782 12-JAN-82      1300
     7902 ford                 analyst         7566 03-DEC-81      3000
     7900 james                clerk           7698 03-DEC-81       950                     30
     7876 adams                clerk           7788 12-JAN-83      1100                     20
     7844 turner               salesman        7698 08-SEP-81      1500           0         30
     7839 king                 president            17-NOV-81      5000                     10
     7788 scott                analyst         7566 09-DEC-82      3000                     20
     7782 clark                manager         7839 09-JUN-81      2450                     10
     7698 blake                manager         8739 01-MAY-81      2850                     30
     7654 martin               salesman        7698 28-SEP-81      1250        1400         30
     7566 jones                manager         7839 02-APR-81      2975                     20
     7521 ward                 salesman        7698 22-FEB-81      1250         500         30
     7499 allen                salesman        7698 20-FEB-81      1600         300         30
     7396 smith                clerk           7902 17-DEC-80       800

14 rows selected.

SQL>
```

Q9. Display the details of all those department that do not have any employee.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select * from dept where deptno not in(select deptno from emp where deptno is not null);

    DEPTNO DEPTNAME             LOCATION
---------- -------------------- ------------------------------
        40 Operation            Boston

SQL>
```

Q.10 Display the detail of all those department in which more than 3 employees are working.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select * from dept where deptno in (select deptno from emp group by deptno having count(deptno) > 3);

    DEPTNO DEPTNAME             LOCATION
---------- -------------------- ------------------------------
        30 Sales                Chicago

SQL>
```

Q.11 Display the detail of those employee who have salary = any employee of deptno 30.

```
SQL> show user;
USER is "C##ASHISH"
SQL> select * from emp where salary in(select salary from emp where deptno = 30);

    EMPNO ENAME                    JOB             MGR HIREDATE      SALARY       COMM     DEPTNO
---------- ------------------------ ---------- ---------- --------- ---------- ---------- ----------
     7698 blake                    manager        8739 01-MAY-81      2850                     30
     7654 martin                   salesman       7698 28-SEP-81      1250       1400          30
     7521 ward                     salesman       7698 22-FEB-81      1250        500          30
     7499 allen                    salesman       7698 20-FEB-81      1600        300          30
     7844 turner                   salesman       7698 08-SEP-81      1500          0          30
     7900 james                    clerk          7698 03-DEC-81       950                     30

6 rows selected.

SQL>
```

Q.12 Rename column empno to eno.

```
SQL> show user;
USER is "C##ASHISH"
SQL> alter table emp rename column empno to eno;

Table altered.

SQL> desc emp;
 Name                                                                              Null?    Type
 ---------------------------------------------------------------------------------- -------- --------------------
 ENO                                                                               NOT NULL NUMBER(4)
 ENAME                                                                                      VARCHAR2(25)
 JOB                                                                                        CHAR(10)
 MGR                                                                                        NUMBER(4)
 HIREDATE                                                                          NOT NULL DATE
 SALARY                                                                                     NUMBER(6)
 COMM                                                                                       NUMBER(4)
 DEPTNO                                                                                     NUMBER(4)

SQL>
```