TASK 9

DBMS

AKHTAR ALI

34241

SUBMITTED TO SIR WARIS KHAN

⇨ ALL QUERIES

select ename,count(job) from emp group by ename,job;
select deptno,job,count(job) from emp group by deptno,job order by deptno;
select count(job) from emp where job='&job' ;
select ename,min(sal), avg(sal) ,max(sal) from emp group by ename,sal;
select mgr,min(sal) from emp group by mgr, sal;
select ename ,dname from emp,dept where emp.deptno=dept.deptno;
select ename,job,deptno,dname from emp natural join dept;
select employee_id,last_name,location_id,department_id from employees join departments using (department_id);
select ename,dname,loc,hisal,losal from emp join dept ON (emp.deptno=dept.deptno) join salgrade ON (emp.emp_grade=salgrade.grade);
select ename,dname,loc from emp,dept,salgrade where emp.deptno = dept.deptno and emp.emp_grade =salgrade.grade;

⇨ **QUERY no#1:** count no of job
⇨ select ename,min(sal), avg(sal) ,max(sal) from emp group by ename,sal;

```
SQL> select ename,min(sal), avg(sal) ,max(sal) from emp group by ename,sal;

ENAME        MIN(SAL)   AVG(SAL)   MAX(SAL)
---------- ---------- ---------- ----------
JONES            2975       2975       2975
SCOTT            3000       3000       3000
Nomi            10000      10000      10000
ALLEN            1600       1600       1600
MARTIN           1250       1250       1250
MILLER           1300       1300       1300
Umair            3000       3000       3000
KING             5000       5000       5000
TURNER           1500       1500       1500
ADAMS            1100       1100       1100
JAMES             950        950        950

ENAME        MIN(SAL)   AVG(SAL)   MAX(SAL)
---------- ---------- ---------- ----------
SMITH             800        800        800
WARD             1250       1250       1250
Akhtar           5000       5000       5000
BLAKE            2850       2850       2850
CLARK            2450       2450       2450
FORD             3000       3000       3000
Haris            1000       1000       1000

18 rows selected.
```

⇨ **QUERY no#1:** select ename,min(sal), avg(sal) ,max(sal) from emp group

⇨ **QUERY no#2:** select ename,count(job) from emp group by ename,job;

⇨ **QUERY no#2:** select ename,count(job) from emp group by ename,job;

```
SQL> select ename,count(job) from emp group by ename,job;

ENAME       COUNT(JOB)
---------- ----------
WARD                1
Haris               1
Akhtar              1
SMITH               1
CLARK               1
TURNER              1    select ename,count(job) from emp group by ename,j
JAMES               1    select deptno,job,count(job) from emp group by dept
Nomi                1    select count(job) from emp where job='&job' ;
JONES               1
MARTIN              1
ADAMS               1

ENAME       COUNT(JOB)
---------- ----------
SCOTT               1
KING                1
FORD                1
Umair               1
ALLEN               1
BLAKE               1
MILLER              1
                        ⇨ QUERY no#1: select ename,count(job) fro
18 rows selected.
```

⇨ **QUERY no#3:** select deptno,job,count(job) from emp group by deptno,job order by deptno;

```
SQL> select deptno,job,count(job) from emp group by deptno,job order by deptno;

    DEPTNO JOB       COUNT(JOB)
---------- --------- ----------
        10 CLERK              1
        10 MANAGER            1
        10 PRESIDENT          1
        20 ANALYST            2
        20 CLERK              2
        20 MANAGER            1
        30 ANALYST            1
        30 CLERK              2
        30 MANAGER            2
        30 PRESIDENT          1
        30 SALESMAN           4

11 rows selected.
```

⇨ **QUERY no#4:** select count(job) from emp where job='&job' ;

```
SQL> select count(job) from emp where job='&job' ;        1
Enter value for job: CLERK                20 ANALYST        2
old    1: select count(job) from emp where job='&job'  2
new    1: select count(job) from emp where job='CLERK'  s
                                          30 ANALYST        1
COUNT(JOB)                                30 CLERK          2
----------                                30 MANAGER        2
         5                                30 PRESIDENT      1
                                          30 SALESMAN       4
```

⇨ **QUERY no#5: select mgr,min(sal) from emp group by mgr, sal;**

```
SQL> select mgr,min(sal) from emp group by mgr, sal;

     MGR   MIN(SAL)
---------- ----------
    7698       1600
    7839       2850
               5000
    7839       2975
    7566       3000
    6677      10000
    7839       2450
    7788       1100
    7902        800
    7698        950
    7788       5000

     MGR   MIN(SAL)
---------- ----------
               3000
    7782       1300
    5566       1000
    7698       1250
    7698       1500

16 rows selected.
```

⇨ **QUERY no#6:** select ename ,dname from emp,dept where emp.deptno=dept.deptno;

```
SQL> select ename ,dname from emp,dept where emp.deptno=dept.deptno;

ENAME      DNAME
---------- --------------
MILLER     ACCOUNTING
KING       ACCOUNTING
CLARK      ACCOUNTING
FORD       RESEARCH
ADAMS      RESEARCH
JONES      RESEARCH
SCOTT      RESEARCH
SMITH      RESEARCH
JAMES      SALES
TURNER     SALES
BLAKE      SALES

ENAME      DNAME
---------- --------------
MARTIN     SALES
WARD       SALES
ALLEN      SALES
Umair      SALES
Akhtar     SALES
Nomi       SALES
Haris      SALES

18 rows selected.
```

QUERY no#6: select ename ,dname from emp,dept

⇨ **QUERY no#7:** Natural join
⇨ **select ename,job,deptno,dname from emp natural join dept;**

```
SQL> select ename,job,deptno,dname from emp   natural join dept;

ENAME      JOB        DEPTNO DNAME
---------- ---------- ------ --------------
MILLER     CLERK          10 ACCOUNTING
KING       PRESIDENT      10 ACCOUNTING
CLARK      MANAGER        10 ACCOUNTING
FORD       ANALYST        20 RESEARCH
ADAMS      CLERK          20 RESEARCH
JONES      MANAGER        20 RESEARCH
SCOTT      ANALYST        20 RESEARCH
SMITH      CLERK          20 RESEARCH
JAMES      CLERK          30 SALES
TURNER     SALESMAN       30 SALES
BLAKE      MANAGER        30 SALES

ENAME      JOB        DEPTNO DNAME
---------- ---------- ---------- --------------
MARTIN     SALESMAN       30 SALES
WARD       SALESMAN       30 SALES
ALLEN      SALESMAN       30 SALES
Umair      CLERK          30 SALES
Akhtar     ANALYST        30 SALES
Nomi       MANAGER        30 SALES
Haris      PRESIDENT      30 SALES

18 rows selected.
```

⇨ QUERY no#7: select ename,job,deptno,dn dept;

⇨ **QUERY no#8: select ename,dname,loc,hisal,losal from emp join dept ON (emp.deptno=dept.deptno) join salgrade ON (emp.emp_grade=salgrade.grade);**

```
SQL> select ename,dname,loc,hisal,losal from emp join dept ON (emp.d
algrade.grade);

ENAME        DNAME           LOC               HISAL      LOSAL
----------   -------------   -------------   ----------  ----------
Umair        SALES           CHICAGO             1200        700
JAMES        SALES           CHICAGO             1200        700
SMITH        RESEARCH        DALLAS              1200        700
ADAMS        RESEARCH        DALLAS              1200        700
MILLER       ACCOUNTING      NEW YORK            1200        700
```

⇨ **QUERY no#9: select ename,dname,loc from emp,dept,salgrade where emp.deptno = dept.deptno and emp.emp_grade =salgrade.grade;**

```
SQL> select ename,dname,loc from emp,dept,salgrade  where emp.deptno

ENAME        DNAME           LOC
----------   -------------   -------------
Umair        SALES           CHICAGO
JAMES        SALES           CHICAGO
SMITH        RESEARCH        DALLAS
ADAMS        RESEARCH        DALLAS
MILLER       ACCOUNTING      NEW YORK
```

⇨ **QUERY no#10: self join**
   select E.ename worker, M.ename manager from emp E,emp M where M.empno=E.mgr;

```
SQL> select E.ename worker, M.ename manager from emp E,emp M where M.empno=E.mgr;

WORKER      MANAGER
----------  ----------
FORD        JONES
SCOTT       JONES
JAMES       BLAKE
TURNER      BLAKE
MARTIN      BLAKE
WARD        BLAKE
ALLEN       BLAKE
MILLER      CLARK
ADAMS       SCOTT
Akhtar      SCOTT
CLARK       KING

WORKER      MANAGER
----------  ----------
BLAKE       KING
JONES       KING
SMITH       FORD
```