RDBMS LAB [CIA 01]

PROGRAMS / QUERY

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(Q1) Management wants to know the maximum salary of all the employees for each deptno., & display only the max salary in descending order.

(A) SQL)
```
2  from emp
3  group by deptno
4  having max(sal) > 2800
5  order by max(sal) desc;
```

```
SQL> select max(sal), deptno
  2  from emp
  3  group by deptno
  4  having max(sal) > 2800
  5  order by max(sal) desc;

  MAX(SAL)     DEPTNO
---------- ----------
      5000         10
      3000         20
      2850         30
```

(Q2) : WAQ to display the employee name, sal, comm, if calculate total salary, annual salary for the employee, sort annual sal in ascending order.

(A) SQL) select ename, sal, comm, (sal+nvl(comm,0)) as "Total Sal", (Sal+comm)*12 as "Annual Sal"
2 from emp
3 order by "Annual Sal";

```
SQL> select ename, sal, comm, (sal + nvl(comm,0)) as "total sal", (sal + comm)*12 as "annual sal"
  2  from emp
  3  order by "annual sal";

ENAME             SAL       COMM  total sal annual sal
---------- ---------- ---------- ---------- ----------
TURNER           1500          0       1500      18000
WARD             1250        500       1750      21000
ALLEN            1600        300       1900      22800
MARTIN           1250       1400       2650      31800
SCOTT            3000                  3000
KING             5000                  5000
ADAMS            1100                  1100
JAMES             950                   950
FORD             3000                  3000
MILLER           1300                  1300
BLAKE            2850                  2850

ENAME             SAL       COMM  total sal annual sal
---------- ---------- ---------- ---------- ----------
JONES            2975                  2975
SMITH             800                   800
CLARK            2450                  2450

14 rows selected.
```

Q3) WAQ to display the list of employee working under which manager.

A) SQL: Select ename || 'works for the manager no' ||
mgr
2 from emp;

```
SQL> select ename || 'works for the manager no' || mgr
  2  from emp;

ENAME||'WORKSFORTHEMANAGERNO'||MGR
--------------------------------------------------------------------------------
SMITHworks for the manager no7902
ALLENworks for the manager no7698
WARDworks for the manager no7698
JONESworks for the manager no7839
MARTINworks for the manager no7698
BLAKEworks for the manager no7839
CLARKworks for the manager no7839
SCOTTworks for the manager no7566
KINGworks for the manager no
TURNERworks for the manager no7698
ADAMSworks for the manager no7788

ENAME||'WORKSFORTHEMANAGERNO'||MGR
--------------------------------------------------------------------------------
JAMESworks for the manager no7698
FORDworks for the manager no7566
MILLERworks for the manager no7782

14 rows selected.
```

Q4) Write a query to display ename and salary in dollars and prefix left white space of salary by special character by and employees belongs to the deptno 20 & 30 who is working as salesman and clerk.

A) SQL) select ename, lpad(sal, 10, '*') sal, deptno, job
2 from emp
3 where deptno in (20, 30) and job in ('SALESMAN', 'CLERK');

```
SQL> select ename, lpad(sal, 10, '*') sal, deptno, job
  2  from emp
  3  where deptno in (20,30) and job in ('SALESMAN','CLERK');

ENAME      SAL                                      DEPTNO JOB
---------- ---------------------------------------- ---------- ---------
SMITH      *******800                                   20 CLERK
ALLEN      ******1600                                   30 SALESMAN
WARD       ******1250                                   30 SALESMAN
MARTIN     ******1250                                   30 SALESMAN
TURNER     ******1500                                   30 SALESMAN
ADAMS      ******1100                                   20 CLERK
JAMES      *******950                                   30 CLERK

7 rows selected.
```

Q) WAQ to find the sum of salary for each department, display only sum of the salary should not be equal to 5,000.

A) SQL> Select deptno, sum(sal)
2 from emp
3 group by deptno
4 Having sum(sal) != 5000;

```
SQL> select deptno, sum(sal)
  2  from emp
  3  group by deptno
  4  having sum(sal) != 5000;

    DEPTNO   SUM(SAL)
---------- ----------
        30       9400
        20      10875
        10       8750
```