SQL> --QUERIES BASED ON EMP AND DEPT TABLES

SQL> desc emp;

Name Null? Type

------------------------------- -------- ----

EMPNO NOT NULL NUMBER(4)

ENAME VARCHAR2(10)

JOB VARCHAR2(9)

MGR NUMBER(4)

HIREDATE DATE

SAL NUMBER(7,2)

COMM NUMBER(7,2)

DEPTNO NUMBER(2)

CARDNO NUMBER(5)

SQL> desc dept;

Name Null? Type

------------------------------- -------- ----

DEPTNO NOT NULL NUMBER(2)

DNAME VARCHAR2(14)

LOC VARCHAR2(13)

SQL> select \* from emp;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO CARDNO

--------- ---------- --------- --------- --------- --------- --------- --------- ---------

7369 SMITH CLERK 7902 17-DEC-80 800 20

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 7839 01-MAY-81 2850 30

7782 CLARK MANAGER 7839 09-JUN-81 2450 10

7839 KING PRESIDENT 17-NOV-81 5000 10

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0 30

7876 ADAMS CLERK 7788 23-MAY-87 1100 20

7900 JAMES CLERK 7698 03-DEC-81 950 30

7902 FORD ANALYST 7566 03-DEC-81 3000 20

7934 MILLER CLERK 7782 23-JAN-82 1300 10

13 rows selected.

SQL> select \* from dept;

DEPTNO DNAME LOC

--------- -------------- -------------

10 ACCOUNTING NEW YORK

20 RESEARCH DALLAS

30 SALES CHICAGO

40 OPERATIONS BOSTON

SQL> --to display employes name , salary and annual salary where comm given

SQL> select empname , sal , sal\*12 "annual salary" from emp

2 where comm is not null;

select empname , sal , sal\*12 "annual salary" from emp

\*

SQL> select \* from emp

2 where sal>=3000 and sal<=5000;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO CARDNO

--------- ---------- --------- --------- --------- --------- --------- --------- ---------

7839 KING PRESIDENT 17-NOV-81 5000 10

7902 FORD ANALYST 7566 03-DEC-81 3000 20

SQL> select \* from emp

2 where job='CLERK';

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO CARDNO

--------- ---------- --------- --------- --------- --------- --------- --------- ---------

7369 SMITH CLERK 7902 17-DEC-80 800 20

7876 ADAMS CLERK 7788 23-MAY-87 1100 20

7900 JAMES CLERK 7698 03-DEC-81 950 30

7934 MILLER CLERK 7782 23-JAN-82 1300 10

SQL> select sum(sal) from emp

2 where deptno=10;

SUM(SAL)

---------

8750

SQL> select ename , sal from emp

2 where deptno in(10,20);

ENAME SAL

---------- ---------

SMITH 800

JONES 2975

CLARK 2450

KING 5000

ADAMS 1100

FORD 3000

MILLER 1300

7 rows selected.

SQL> select ename , hiredate from emp

2 where ename like 'A%';

ENAME HIREDATE

---------- ---------

ALLEN 20-FEB-81

ADAMS 23-MAY-87

SQL> select \* from emp

2 where ename like '--A%';

no rows selected

SQL> select empno , ename , sal from emp

2 order by sal;

EMPNO ENAME SAL

--------- ---------- ---------

7369 SMITH 800

7900 JAMES 950

7876 ADAMS 1100

7521 WARD 1250

7654 MARTIN 1250

7934 MILLER 1300

7844 TURNER 1500

7499 ALLEN 1600

7782 CLARK 2450

7698 BLAKE 2850

7566 JONES 2975

7902 FORD 3000

7839 KING 5000

13 rows selected.

SQL> select \* from emp

2 where deptno in(10,30)

3 order by deptno desc;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO CARDNO

--------- ---------- --------- --------- --------- --------- --------- --------- ---------

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300 30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500 30

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400 30

7698 BLAKE MANAGER 7839 01-MAY-81 2850 30

7900 JAMES CLERK 7698 03-DEC-81 950 30

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0 30

7782 CLARK MANAGER 7839 09-JUN-81 2450 10

7934 MILLER CLERK 7782 23-JAN-82 1300 10

7839 KING PRESIDENT 17-NOV-81 5000 10

9 rows selected.

SQL> select 2\*14 from dual;

2\*14

---------

28

SQL> select sysdate from dual;

SYSDATE

---------

14-FEB-14

SQL> select ename , sal\*12 "annual salary" from emp

2 where deptno=10;

ENAME annual salary

---------- -------------

CLARK 29400

KING 60000

MILLER 15600

SQL> select empno,ename,max(sal),min(sal) from emp

2 where deptno=20;

SQL> select max(sal) , min(sal) from emp;

MAX(SAL) MIN(SAL)

--------- ---------

5000 800

SQL> select count(\*) , count(comm) , max(sal) ,min(sal) from emp;

COUNT(\*) COUNT(COMM) MAX(SAL) MIN(SAL)

--------- ----------- --------- ---------

13 4 5000 800

SQL> select sum(sal) from emp

2 group by deptno;

SUM(SAL)

---------

8750

7875

9400

SQL> select deptno , sum(sal)from emp

2 group by deptno;

DEPTNO SUM(SAL)

--------- ---------

10 8750

20 7875

30 9400

SQL> select job , count(\*) "no. of emp" , sum(sal) "total sal", max(sal) ,min(sal) from emp

2 group by job;

JOB no. of emp total sal MAX(SAL) MIN(SAL)

--------- ---------- --------- --------- ---------

ANALYST 1 3000 3000 3000

CLERK 4 4150 1300 800

MANAGER 3 8275 2975 2450

PRESIDENT 1 5000 5000 5000

SALESMAN 4 5600 1600 1250

SQL> select job , max(sal) from emp

2 group by job;

JOB MAX(SAL)

--------- ---------

ANALYST 3000

CLERK 1300

MANAGER 2975

PRESIDENT 5000

SALESMAN 1600

SQL> select ename,dname from emp,dept

2 where dept.deptno=emp.deptno;

ENAME DNAME

---------- --------------

SMITH RESEARCH

ALLEN SALES

WARD SALES

JONES RESEARCH

MARTIN SALES

BLAKE SALES

CLARK ACCOUNTING

KING ACCOUNTING

TURNER SALES

ADAMS RESEARCH

JAMES SALES

FORD RESEARCH

MILLER ACCOUNTING

13 rows selected.

SQL> select emp.deptno ,ename , dname from emp ,dept

2 where dept.deptno=emp.deptno;

DEPTNO ENAME DNAME

--------- ---------- --------------

20 SMITH RESEARCH

30 ALLEN SALES

30 WARD SALES

20 JONES RESEARCH

30 MARTIN SALES

30 BLAKE SALES

10 CLARK ACCOUNTING

10 KING ACCOUNTING

30 TURNER SALES

20 ADAMS RESEARCH

30 JAMES SALES

20 FORD RESEARCH

10 MILLER ACCOUNTING

13 rows selected.

SQL> select ename,dname from emp e , dept d

2 where e.deptno=d.deptno;

ENAME DNAME

---------- --------------

SMITH RESEARCH

ALLEN SALES

WARD SALES

JONES RESEARCH

MARTIN SALES

BLAKE SALES

CLARK ACCOUNTING

KING ACCOUNTING

TURNER SALES

ADAMS RESEARCH

JAMES SALES

FORD RESEARCH

MILLER ACCOUNTING

13 rows selected.