**DAY 2**

**EMPLOYEE TABLE QUESTIONS**

SQL> create table emp\_info as select empno,ename,job,hiredate,sal,deptno from emp;

Table created.

SQL> select \* from emp\_info;

EMPNO ENAME JOB HIREDAT SAL DEPTNO

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7369 SMITH CLERK 17-DEC-80 800 20

7499 ALLEN SALESMAN 20-FEB-81 1600 30

7521 WARD SALESMAN 22-FEB-81 1250 30

7566 JONES MANAGER 02-APR-81 2975 20

7654 MARTIN SALESMAN 28-SEP-81 1250 30

7698 BLAKE MANAGER 01-MAY-81 2850 30

7782 CLARK MANAGER 09-JUN-81 2450 10

7788 SCOTT ANALYST 19-APR-87 3000 20

7839 KING PRESIDENT 17-NOV-81 5000 10

7844 TURNER SALESMAN 08-SEP-81 1500 30

7876 ADAMS CLERK 23-MAY-87 1100 20

7900 JAMES CLERK 03-DEC-81 950 30

7902 FORD ANALYST 03-DEC-81 3000 20

13 rows selected.

SQL> alter table emp\_info add mgr number,comm number;

Table altered.

SQL> select \* from emp\_info;

EMPNO ENAME JOB HIREDAT SAL DEPTNO MGR COMM

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7369 SMITH CLERK 17-DEC-80 800 20 7902

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

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

7566 JONES MANAGER 02-APR-81 2975 20 7839

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

7698 BLAKE MANAGER 01-MAY-81 2850 30 7839

7782 CLARK MANAGER 09-JUN-81 2450 10 7839

7788 SCOTT ANALYST 19-APR-87 3000 20 7566

7839 KING PRESIDENT 17-NOV-81 5000 10

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

7876 ADAMS CLERK 23-MAY-87 1100 20 7788

7900 JAMES CLERK 03-DEC-81 950 30 7698

7902 FORD ANALYST 03-DEC-81 3000 20 7566

13 rows selected.

**Query 1 : There are a few employees who get commission. List their names.**

SQL> select ename from emp\_info where comm is not null;

ENAME

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ALLEN

WARD

MARTIN

TURNER

**Query 2 : Write a query to display a messages, like, “Smith is working as a Manager in the**

**Department 20 and his salary is 800”.**

SQL> select ename||' '||'is working as'||' ' ||job||' ' ||'in'||' ' ||'department'||' '||deptno||' '||'and his salary is'||' ' ||sal from emp\_info;

ENAME||''||'ISWORKINGAS'||''||JOB||''||'IN'||''||'DEPARTMENT'||''||DEPTNO||''||'

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

SMITH is working as CLERK in department 20 and his salary is 800

ALLEN is working as SALESMAN in department 30 and his salary is 1600

WARD is working as SALESMAN in department 30 and his salary is 1250

JONES is working as MANAGER in department 20 and his salary is 2975

MARTIN is working as SALESMAN in department 30 and his salary is 1250

BLAKE is working as MANAGER in department 30 and his salary is 2850

CLARK is working as MANAGER in department 10 and his salary is 2450

SCOTT is working as ANALYST in department 20 and his salary is 3000

KING is working as PRESIDENT in department 10 and his salary is 5000

TURNER is working as SALESMAN in department 30 and his salary is 1500

ADAMS is working as CLERK in department 20 and his salary is 1100

JAMES is working as CLERK in department 30 and his salary is 950

FORD is working as ANALYST in department 20 and his salary is 3000

13 rows selected.

**Query 3 : List the different categories of the jobs available in the company.**

SQL> select distinct job from emp\_info;

JOB

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CLERK

SALESMAN

PRESIDENT

MANAGER

ANALYST

**Query 4 : Find out how many employees are working in each job category.**

SQL> select job,count(\*) from emp\_info group by job;

JOB COUNT(\*)

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CLERK 3

SALESMAN 4

PRESIDENT 1

MANAGER 3

ANALYST 2

**Query 5 : Find out the length of the empno for the workers who work as a salesman.**

SQL> select ename,length(ename) from emp\_info where job='SALESMAN';

ENAME LENGTH(ENAME)

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ALLEN 5

WARD 4

MARTIN 6

TURNER 6

**Query 6 : Select employee name, grade and salary, in the order of their salary.**

SQL> select ename,job,sal from emp\_info order by sal ASC;

ENAME JOB SAL

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SMITH CLERK 800

JAMES CLERK 950

ADAMS CLERK 1100

WARD SALESMAN 1250

MARTIN SALESMAN 1250

TURNER SALESMAN 1500

ALLEN SALESMAN 1600

CLARK MANAGER 2450

BLAKE MANAGER 2850

JONES MANAGER 2975

FORD ANALYST 3000

SCOTT ANALYST 3000

KING PRESIDENT 5000

13 rows selected.

**Query 7 : How many employees are getting salary more than 1000?**

SQL> select count(sal) from emp\_info where sal>1000;

COUNT(SAL)

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11

**Query 8 : Select only those employees who are a clerk and a manager.**

SQL> select ename,job from emp\_info where job in('CLERK','MANAGER');

ENAME JOB

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SMITH CLERK

JONES MANAGER

BLAKE MANAGER

CLARK MANAGER

ADAMS CLERK

JAMES CLERK

6 rows selected.

**Query 9 : How many employees are there whose names start with ‘A’?**

SQL> select count(ename) Name\_Starts\_with\_A from emp\_info where ename like 'A%';

NAME\_STARTS\_WITH\_A

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2

**Query 10 : Find the location of the letter ‘K’ in the name Blake.**

SQL> select instr('BLAKE','K') OCCURENCE\_of\_K from dual;

OCCURENCE\_OF\_K

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4

**Query 11 : Select those employees, who have joined on or before 31st December 1982 and is a clerk.**

SQL> select ename,hiredate from emp\_info where job='CLERK' AND hiredate<=('31-DEC-1982');

ENAME HIREDATE

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SMITH 17-DEC-80

JAMES 03-DEC-81

**Query 12 : In which location the letter R is present in MARTIN?**

SQL> select instr('MARTIN','R') OCCURENCE\_of\_R from dual;

OCCURENCE\_OF\_R

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3

**Query 13 : Replace the name KING with KONG.**

SQL> select replace('KING','KONG') from dual;

REPL

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KING

**Query 14 : Display the name of the employees in a manner, so that they are right aligned and the**

**title, ‘Mr.’ is added at the beginning of their names.**

SQL> update emp\_info set ename= concat('Mr ',ename) ;

13 rows updated.

SQL> select ename from emp\_info;

ENAME

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Mr SMITH

Mr ALLEN

Mr WARD

Mr JONES

Mr MARTIN

Mr BLAKE

Mr CLARK

Mr SCOTT

Mr KING

Mr TURNER

Mr ADAMS

Mr JAMES

Mr FORD

13 rows selected.

**Query 15 : Find the first letter of the name of the employee who is getting salary 800.**

SQL> select ename,substr(ename,4,1) Initial\_name from emp\_info where sal=800;

ENAME INIT

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Mr SMITH S

**Query 16 : Display the first name of the employees in small letters and jobs of the employees in**

**CAPITAL letters.**

SQL> select lower(ename),upper(job) from emp\_info;

LOWER(ENAME) UPPER(JOB)

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mr smith CLERK

mr allen SALESMAN

mr ward SALESMAN

mr jones MANAGER

mr martin SALESMAN

mr blake MANAGER

mr clark MANAGER

mr scott ANALYST

mr king PRESIDENT

mr turner SALESMAN

mr adams CLERK

mr james CLERK

mr ford ANALYST

13 rows selected.

**Query 17 : For how many months Miller is working in the company?**

SQL> SELECT ename,TRUNC(MONTHS\_BETWEEN(SYSDATE, hiredate) / 12) AS Working\_Months from emp\_info where ename='Mr MILLER';

ENAME WORKING\_MONTHS

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Mr MILLER 41

**Query 18 : What is the experience of the employee whose empno is 7788?**

SQL> SELECT ename,hiredate,TRUNC(MONTHS\_BETWEEN(SYSDATE, hiredate) / 12) AS years\_of\_experience from emp\_info where empno=7788;

ENAME HIREDATE YEARS\_OF\_EXPERIENCE

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Mr SCOTT 19-APR-87 35

**Query 19 : Find out in which year Adams has joined the company.**

SQL> select concat('19',substr(hiredate,8,12)) Joining\_Year from emp\_info where ename='Mr ADAMS';

ENAME JOINING\_YEAR

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Mr ADAMS 1987

**Query 20 : Give a pay hike to those whose experience is more than 10 years.**

SQL> select ename,hiredate,sal,(sal+1250) INC from emp\_info where TRUNC(MONTHS\_BETWEEN(SYSDATE, hiredate) / 12) > 10;

ENAME HIREDATE SAL INC

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Mr SMITH 17-DEC-80 800 2050

Mr ALLEN 20-FEB-81 1600 2850

Mr WARD 22-FEB-81 1250 2500

Mr JONES 02-APR-81 2975 4225

Mr MARTIN 28-SEP-81 1250 2500

Mr BLAKE 01-MAY-81 2850 4100

Mr CLARK 09-JUN-81 2450 3700

Mr SCOTT 19-APR-87 3000 4250

Mr KING 17-NOV-81 5000 6250

Mr TURNER 08-SEP-81 1500 2750

Mr ADAMS 23-MAY-87 1100 2350

Mr JAMES 03-DEC-81 950 2200

Mr FORD 03-DEC-81 3000 4250

Mr MILLER 23-JAN-82 7782 9032

14 rows selected.