DBMS LABORATORY 3

LAB RECORD

NAME : <u>ANIRBAN HAZRA</u>

SECTION: CSE - 16

ROLL : 2005643

DATE : <u>15/02/2022</u>

BUILT - IN FUNCTIONS

1. List the emps whose sal is 4 digit number ending with zero.

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	36
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	36
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	36
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		36
7782	CLARK	MANAGER	7839	09-JUN-81	2450		16
7788	SCOTT	ANALYST	7566	09-NOV-81	3000		26
7839	KING	PRESIDENT		17-NOV-81	5000		16
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	36
7876	ADAMS	CLERK	7788	23-SEP-81	1100		26
7902	FORD	ANALYST	7566	03-DEC-81	3000		26
7934	MILLER	CLERK	7782	23-JAN-82	1300		16

2. List the emps those who joined in 80's

QL>	select	* from emp	where to_char(hireda	ate,'YY') b	oetween '80'	and '89';	
	EMPNO	ENAME	ЈОВ	MGR		SAL		DEPTNO
	7369	SMITH	CLERK	7902				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
	7788	SCOTT	ANALYST	7566	09-NOV-81	3000		20
	7839	KING	PRESIDENT		17-NOV-81	5000		10
	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
	7876	ADAMS	CLERK	7788	23-SEP-81	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
1 no	ave col	lected.						
+ 1.0	W2 261	iecteu.						

3. List the emps who does not belong to deptno 20

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTN
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	3
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	3
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	3
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		3
7782	CLARK	MANAGER	7839	09-JUN-81	2450		1
7839	KING	PRESIDENT		17-NOV-81	5000		1
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	3
7900	JAMES	CLERK	7698	03-DEC-81	950		3
7934	MILLER	CLERK	7782	23-JAN-82	1300		1

4. List all the emps except 'president' & 'Mgr' in asc order of salaries

SQL> select	* from emp	where job	not in('P	RESIDENT',	'MANAGER')	order by sal	.asc;
EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7876	ADAMS	CLERK	7788	23-SEP-81	1100		20
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7934	MILLER	CLERK	7782	23-JAN-82	1300		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7788	SCOTT	ANALYST	7566	09-NOV-81	3000		20
10 rows sel	lected.						

5. List the emps whose empno not starting with digit 78

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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
7788	SCOTT	ANALYST	7566	09-NOV-81	3000		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
5643	ANIRBAN						

6. Display the details of 'Smith'

```
SQL> select * from emp where ename = 'SMITH';

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

7369 SMITH CLERK 7902 17-DEC-80 800 20

SQL> ANIRBAN HAZRA
```

7. Find the highest Sal of the Emp table.

```
SQL> select max(sal) from emp ;

MAX(SAL)

5000
```

8. Find the total sal given to the 'MGR'

```
SQL> select sum(sal) from emp where empno in(select mgr from emp);

SUM(SAL)
-----
19275
```

9. List the emps whose salary is more than 3000 after giving 20% increment

```
SQL> SELECT * FROM EMP WHERE (1.2*SAL) > 3000;
                                                                    COMM
    EMPNO ENAME
                                     MGR HIREDATE
                                                                             DEPTNO
     7566 JONES
                     MANAGER
                                     7839 02-APR-81
                                                         2975
                                                                                 20
                   MANAGER
     7698 BLAKE
                                    7839 01-MAY-81
                                                         2850
                                                                                 30
     7788 SCOTT
                     ANALYST
                                    7566 09-NOV-81
                                                                                 20
                                                         3000
                    PRESIDENT
     7839 KING
                                          17-NOV-81
                                                         5000
                                                                                 10
     7902 FORD
                     ANALYST
                                     7566 03-DEC-81
                                                         3000
                                                                                 20
```

10. List those emps whose sal is odd value.

```
SQL> select * from emp where mod(sal,2) = 1;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

7566 JONES MANAGER 7839 02-APR-81 2975 20
```

11. List the emps whose sal contain 3 digits

```
SQL> select * from emp where length (sal) = 3;
                                                                       COMM
     EMPNO ENAME
                      JOB
                                                             SAL
                                       MGR HIREDATE
                                                                                DEPTNO
      7369 SMITH
                      CLERK
                                      7902 17-DEC-80
                                                             800
                                                                                    20
      7900 JAMES
                      CLERK
                                      7698 03-DEC-81
                                                             950
                                                                                    30
```

12. List the emps whose first 2 chars from hiredate = last 2 chars of salary.

```
SQL> select * from emp
2 where substr(hiredate,1,2) = substr(sal,length(sal)-1,length(sal));
no rows selected
```

13. List the emps whose 10% of sal is equal to year of Joining

```
SQL> select * from emp where to_char(hiredate,'YY') in (select 0.1*sal from emp);

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

7369 SMITH CLERK 7902 17-DEC-80 800 20
```

14. Display employee name and annual salary for all employees.

```
SQL> select ename , sal , sal*12 "Annual Salary" from emp;
ENAME
                   SAL Annual Salary
                   800
                                 9600
                  1600
                                19200
ALLEN
WARD
                  1250
                                15000
JONES
                  2975
                                35700
MARTIN
                  1250
                                15000
BLAKE
                  2850
                                34200
                                29400
CLARK
                  2450
SCOTT
                  3000
                                36000
                  5000
                                60000
KING
TURNER
                  1500
                                18000
ADAMS
                  1100
                                13200
JAMES
                                11400
                   950
FORD
                  3000
                                36000
MILLER
                  1300
                                15600
ANIRBAN
15 rows selected.
```