NAME: Ladani shruti jalpeshbhai

SUBJECT: DATABASE MANAGEMENT SYSTEM (PROBLEMSHEET-1)

ENROLLMENT NUMBER:20020201343

ROLL NO: 331

DIV-E

COLLEGE: Bhagwan Mahavir University

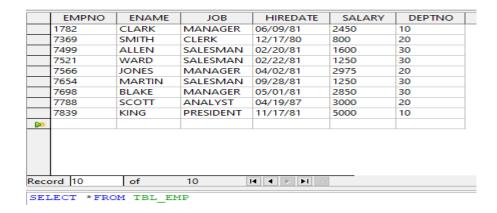
PROBLEM SHEET-1

```
PROBLEM-1:
Create Table:
CREATE TABLE TBL_ EMP
(
EMPNO NUMERIC (5) PRIMARY KEY,
ENAME VARCHAR (50),
JOB VARCHAR (20),
HIREDATE DATE,
SALARY NUMERIC (10),
DEPTNO NUMERIC (5),
CONSTRAINT FK1 FOREIGN KEY (DEPTNO) REFERENCES DEPT (DEPTNO)
)
```

EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO

1. Display all the records from emp table.

ANS: SELECT *FROM TBL_EMP.



Create Table:

```
CREATE TABLE DEPT
```

(

DEPTNO NUMERIC (5) PRIMARY KEY,

DNAME VARCHAR (30),

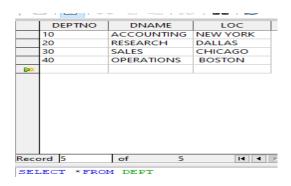
LOC VARCHAR (50)

)

DEPTNO	DNAME	LOC	

2. Display all the records from dept table.

ANS: SELECT *FROM DEPT



3. Display all the employee whose salary is higher than 2000.

ANS: SELECT * FROM TBL_ EMP WHERE SALARY > 2000

	EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO
	1782	CLARK	MANAC	06/09/81	2450	10
>	1782	JONES	MANAC	04/02/81	2975	20
	7698	BLAKE	MANAC	05/01/81	2850	30
	7788	SCOTT	ANALY:	04/19/87	3000	20
	7839	KING	PRESIDE	11/17/81	5000	10
S.						

4. Display all employee with job whose hire date Before 28-sep-810.

ANS: SELECT * FROM TBL_EMP WHERE HIREDATE < '1981-09-28'

	EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO
	1782	CLARK	MANAGER	06/09/81	2450	10
	7369	SMITH	CLERK	12/17/80	800	20
	7499	ALLEN	SALESMAN	02/20/81	1600	30
	7521	WARD	SALESMAN	02/22/81	1250	30
	7566	JONES	MANAGER	04/02/81	2975	20
	7698	BLAKE	MANAGER	05/01/81	2850	30
**						
Reco	ord 1	of	6			
SEI	ECT * FF	OM TBL_E	MP WHERE	HIREDATE <	1981-0	9-28'

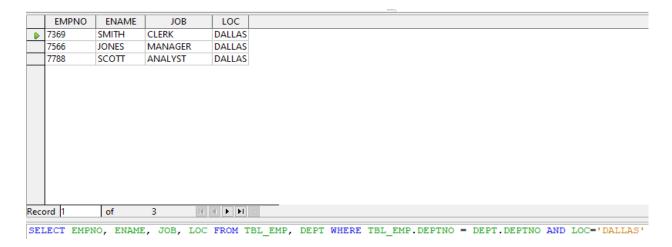
5. Display all employee number ,employee name ,job ,department name.

ANS: SELECT EMPNO, ENAME, JOB, DNAME FROM TBL_EMP, DEPT WHERE TBL_EMP.DEPTNO = DEPT.DEPTNO

EMPNO ENAME JOB DNAME 1782 CLARK MANAGER ACCOUNTING 7369 SMITH CLERK RESEARCH 7499 ALLEN SALESMAN SALES 7521 WARD SALESMAN SALES 7566 JONES MANAGER RESEARCH 7654 MARTIN SALESMAN SALES 7698 BLAKE MANAGER SALES 7788 SCOTT ANALYST RESEARCH 7839 KING PRESIDENT ACCOUNTING					
7369 SMITH CLERK RESEARCH 7499 ALLEN SALESMAN SALES 7521 WARD SALESMAN SALES 7566 JONES MANAGER RESEARCH 7654 MARTIN SALESMAN SALES 7698 BLAKE MANAGER SALES 7788 SCOTT ANALYST RESEARCH		EMPNO	ENAME	JOB	DNAME
7499 ALLEN SALESMAN SALES 7521 WARD SALESMAN SALES 7566 JONES MANAGER RESEARCH 7654 MARTIN SALESMAN SALES 7698 BLAKE MANAGER SALES 7788 SCOTT ANALYST RESEARCH	D	1782	CLARK	MANAGER	ACCOUNTING
7521 WARD SALESMAN SALES 7566 JONES MANAGER RESEARCH 7654 MARTIN SALESMAN SALES 7698 BLAKE MANAGER SALES 7788 SCOTT ANALYST RESEARCH		7369	SMITH	CLERK	RESEARCH
7566 JONES MANAGER RESEARCH 7654 MARTIN SALESMAN SALES 7698 BLAKE MANAGER SALES 7788 SCOTT ANALYST RESEARCH		7499	ALLEN	SALESMAN	SALES
7654 MARTIN SALESMAN SALES 7698 BLAKE MANAGER SALES 7788 SCOTT ANALYST RESEARCH		7521	WARD	SALESMAN	SALES
7698 BLAKE MANAGER SALES 7788 SCOTT ANALYST RESEARCH		7566	JONES	MANAGER	RESEARCH
7788 SCOTT ANALYST RESEARCH		7654	MARTIN	SALESMAN	SALES
		7698	BLAKE	MANAGER	SALES
7839 KING PRESIDENT ACCOUNTING		7788	SCOTT	ANALYST	RESEARCH
		7839	KING	PRESIDENT	ACCOUNTING
	Reco	ord 1	of	q	M 4 P H c
ecord 1 of 9	rect	ora p	101		
ecord 1 of 9 11 1 M	SEI	LECT EMPN	NO, ENAME	E, JOB, D	NAME FROM TB

6. Display all employee whose location is 'DALLAS'.

ANS: SELECT EMPNO, ENAME, JOB, LOC FROM TBL_EMP, DEPT WHERE TBL_EMP.DEPTNO = DEPT.DEPTNO AND LOC='DALLAS'



7. Display all employee whose department name is 'SALES'.

ANS: SELECT EMPNO, ENAME, JOB, DNAME FROM TBL_EMP, DEPT WHERE TBL_EMP.DEPTNO = DEPT.DEPTNO AND DNAME='SALES'

_				
	EMPNO	ENAME	JOB	DNAME
D	7499	ALLEN	SALESMAN	SALES
	7521	WARD	SALESMAN	SALES
	7654	MARTIN	SALESMAN	SALES
	7698	BLAKE	MANAGER	SALES
Rec	ord 1	of	4	H ← F FI ○
Rec	oru ji	101	-	N N L L
SE	LECT EMPN	NO, ENAME	E, JOB, I	ONAME FROM

8. Display all employee whose salary is higher than 2000 and location is 'DALAS'.

ANS: SELECT * FROM TBL_EMP, DEPT WHERE SALARY>2000 AND LOC='DALLAS'

	EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO	DEPTNO	DNAME	LOC
D	1782	CLARK	MANAGER	06/09/81	2450	10	20	RESEARCH	DALLAS
	7566	JONES	MANAGER	04/02/81	2975	20	20	RESEARCH	DALLAS
	7698	BLAKE	MANAGER	05/01/81	2850	30	20	RESEARCH	DALLAS
	7788	SCOTT	ANALYST	04/19/87	3000	20	20	RESEARCH	DALLAS
	7839	KING	PRESIDENT	11/17/81	5000	10	20	RESEARCH	DALLAS
Reco	ord 1	of	5						
SEL	ECT * FF	OM TBL I	MP, DEPT W	HERE SALARY	>2000 AN	D LOC='DA	T.T.Z.S.		

9. Display all employee whose job is 'SALESMAN' and location not in 'CHICAGO'.

ANS: SELECT * FROM TBL_EMP, DEPT WHERE JOB='SALESMAN' AND LOC='CHICAGO'

MPNO 9 1 4	ALLEN WARD MARTIN	JOB SALESMAN SALESMAN SALESMAN	HIREDATE 02/20/81 02/22/81 09/28/81	SALARY 1600 1250 1250	30 30 30 30	30 30 30 30	SALES SALES SALES	LOC CHICAGO CHICAGO CHICAGO
1	WARD	SALESMAN	02/22/81	1250	30	30	SALES	CHICAGO
4	MARTIN	SALESMAN	09/28/81	1250	30	30	SALES	CHICAGO
1	of	3		<u> </u>				

10. Change the job of employee whose number is 7521 from 'SALESMAN' to 'MANAGER'.

ANS: UPDATE TBL_EMP SET JOB='MANAGER' WHERE EMPNO=7521

EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO
1782	CLARK	MANAC	06/09/81	2450	10
7369	SMITH	CLERK	12/17/80	800	20
7499	ALLEN	SALESIV	02/20/81	1600	30
7521	WARD	MANAG	02/22/81	1250	30
7566	JONES	MANAG	04/02/81	2975	20
7654	MARTIN	SALESIV	09/28/81	1250	30
7698	BLAKE	MANAG	05/01/81	2850	30
7788	SCOTT	ANALY:	04/19/87	3000	20
7839	KING	PRESIDE	11/17/81	5000	10

11. Display all employee whose location starts from 'C'.

ANS: SELECT * FROM TBL_EMP, DEPT WHERE LOC LIKE 'C%'

	EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO	DEPTNO	DNAME	LOC
D	1782	CLARK	MANAGER	06/09/81	2450	10	30	SALES	CHICAGO
	7369	SMITH	CLERK	12/17/80	800	20	30	SALES	CHICAGO
	7499	ALLEN	SALESMAN	02/20/81	1600	30	30	SALES	CHICAGO
	7521	WARD	MANAGER	02/22/81	1250	30	30	SALES	CHICAGO
	7566	JONES	MANAGER	04/02/81	2975	20	30	SALES	CHICAGO
	7654	MARTIN	SALESMAN	09/28/81	1250	30	30	SALES	CHICAGO
	7698	BLAKE	MANAGER	05/01/81	2850	30	30	SALES	CHICAGO
	7788	SCOTT	ANALYST	04/19/87	3000	20	30	SALES	CHICAGO
	7839	KING	PRESIDENT	11/17/81	5000	10	30	SALES	CHICAGO
_	ord 1	of	9	M 4 F FI o					

12. Delete the record whose name is 'KING'.

ANS: DELETE FROM TBL_EMP WHERE ENAME='KING'

EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO
1782	CLARK	MANAG	06/09/81	2450	10
7369	SMITH	CLERK	12/17/80	800	20
7499	ALLEN	SALESIV	02/20/81	1600	30
7521	WARD	MANAG	02/22/81	1250	30
7566	JONES	MANAG	04/02/81	2975	20
7654	MARTIN	SALESIV	09/28/81	1250	30
7698	BLAKE	MANAG	05/01/81	2850	30
7788	SCOTT	ANALY:	04/19/87	3000	20

13. Undo the above command.

ANS: rollback

14. Display all the records in descending order of salary.

ANS: SELECT * FROM TBL_EMP ORDER BY SALARY DESC

	EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO
	7788	SCOTT	ANALYST	04/19/87	3000	20
	7566	JONES	MANAGER	04/02/81	2975	20
	7698	BLAKE	MANAGER	05/01/81	2850	30
	1782	CLARK	MANAGER	06/09/81	2450	10
	7499	ALLEN	SALESMAN	02/20/81	1600	30
	7654	MARTIN	SALESMAN	09/28/81	1250	30
	7521	WARD	MANAGER	02/22/81	1250	30
	7369	SMITH	CLERK	12/17/80	800	20
**	ord II	l of	8			
Reco	ord 1	of	8 14 4	► FI SS		

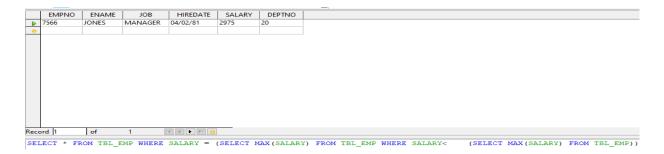
15. Find the employee who have the maximum salary.

ANS: SELECT * FROM TBL_EMP WHERE SALARY = (SELECT MAX(SALARY)FROM TBL_EMP)



16. Find the employee who have second highest salary.

ANS: SELECT * FROM TBL_EMP WHERE SALARY = (SELECT MAX(SALARY) FROM TBL_EMP WHERE SALARY < (SELECT MAX(SALARY) FROM TBL_EMP))



17. Find the employee who have third highest salary.

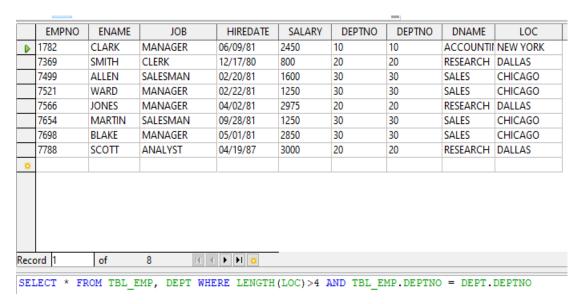
ANS: SELECT * FROM TBL_EMP WHERE SALARY = (SELECT MAX(SALARY) FROM TBL_EMP WHERE SALARY

(SELECT MAX(SALARY) FROM TBL_EMP)))



18. Display all the employee whose length of location is higher than 4.

ANS: SELECT * FROM TBL_EMP, DEPT WHERE LENGTH(LOC)>4 AND TBL_EMP.DEPTNO = DEPT.DEPTNO



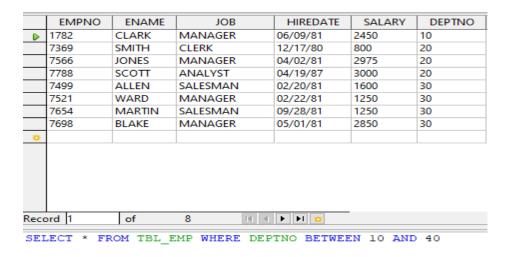
19. Display maximum , minimum and average salary .

ANS: SELECT MAX(SALARY) AS MAX_SALARY, MIN(SALARY) AS MIN_SALARY, AVG(SALARY) AS AVG_AVG FROM TBL_EMP



20. Display all the employee whose department number is between 10 and 40.

ANS: SELECT * FROM TBL_EMP WHERE DEPTNO BETWEEN 10 AND 40



21. Change the employee whose location is not 'DALAS' and salary is higher than 3000.

ANS: UPDATE TBL_EMP SET ENAME='MITEN' WHERE SALARY>3000 AND DEPTNO NOT IN (SELECT DEPTNO FROM DEPT WHERE LOC='DALLAS')

EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO
1782	CLARK	MANAC	06/09/81	2450	10
7369	SMITH	CLERK	12/17/80	800	20
7499	ALLEN	SALESIV	02/20/81	1600	30
7521	WARD	MANAC	02/22/81	1250	30
7566	JONES	MANAC	04/02/81	2975	20
7654	MARTIN	SALESIV	09/28/81	1250	30
7698	BLAKE	MANAC	05/01/81	2850	30
7788	SCOTT	ANALY:	04/19/87	3000	20

23. Rename table DEPT to DEPT1.

ANS: ALTER TABLE DEPT RENAME TO DEPT1



24. Display all the employee whose department number is between 10 and 40 and location start with 'N'.

ANS: SELECT * FROM DEPT WHERE DEPTNO BETWEEN 10 AND 40 AND DEPTNO=(SELECT DEPTNO FROM DEPT WHERE LOC LIKE 'N%')

