Practical 2: Study of Data Manipulation Language Statement

A) Insert the following records in above created table

EMP TABLE

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	СОММ	DEPTNO
7839	KING	PRESIDENT		17-Nov-81	5000		10
7698	BLAKE	MANAGER	7839	01-May-81	2850		30
7782	CLARK	MANAGER	7839	09-Jun-81	2450		10
7566	JONES	MANAGER	7839	02-Apr-81	2975		20
7788	SCOTT	ANALYST	7566	19-Apr-87	3000		20
7902	FORD	ANALYST	7566	03-Dec-81	3000		20
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
7654	MARTIN	SALESMAN	7698	28-Sep-81	1250	1400	30
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
7934	MILLER	CLERK	7782	23-Jan-82	1300		10

SQL> select	SQL> select * from EMP_Bechu;											
EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM						
DEPTNO												
7839 10	KING	PRESIDENT		17-NOV-81	5000							
SQL> _												

```
Run SQL Command Line
SQL> insert into EMP_Bechu values(7698, 'BLAKE', 'MANAGER', 7839, '09-May-81', 2850, '', 30);
1 row created.
SQL> insert into EMP_Bechu values(7782, 'CLARK', 'MANAGER', 7839, '09-Jun-81', 2450, '', 10);
SQL> insert into EMP_Bechu values(7566, 'JONES', 'MANAGER', 7839, '02-Apr-81', 2975, '', 20);
SQL> insert into EMP_Bechu values(7788, 'SCOTT', 'ANALYST',7566, '19-Apr-87',3000,'',20);
1 row created.
SQL> insert into EMP_Bechu values(7902, FORD', 'ANALYST',7566, '03-Dec-81',3000,'',20);
1 row created.
SQL> insert into EMP_Bechu values(7369, 'SMITH', 'CLERK', 7902, '17-Dec-80', 800, '', 20);
1 row created.
SQL> insert into EMP_Bechu values(7499, 'ALLEN', 'SALESMAN', 7698, '20-Feb-81', 1600, 300, 30);
1 row created.
SQL> insert into EMP_Bechu values(7521, 'WARD', SALESMAN', 7698, '22-Feb-81', 1250, 500, 30);
ORA-01756: quoted string not properly terminated
SQL> insert into EMP Bechu values(7521, 'WARD', 'SALESMAN', 7698, '22-Feb-81', 1250, 500, 30);
1 row created.
SQL> insert into EMP Bechu values(7654, 'MARTIN', 'SALESMAN', 7698, '28-Sep-81', 1250', 1400, 30);
FRROR:
ORA-01756: quoted string not properly terminated
SQL> insert into EMP_Bechu values(7654, 'MARTIN', 'SALESMAN',7698, '28-Sep-81',1250,1400,30);
1 row created.
SQL> insert into EMP_Bechu values(7844, 'TURNER', 'SALESMAN', 7698, '08-Sep-81', 1500, 0, 30);
1 row created.
SQL> insert into EMP_Bechu values(7876,'ADAMS','CLERK',7788,'23-May-87',1100,20); insert into EMP_Bechu values(7876,'ADAMS','CLERK',7788,'23-May-87',1100,20)
ERROR at line 1:
ORA-00947: not enough values
SQL> insert into EMP_Bechu values(7876, 'ADAMS', 'CLERK',7788, '23-May-87',1100,'',20);
1 row created.
SQL> insert into EMP_Bechu values(7900, 'JAMES', 'CLERK', 7698, '03-Dec-81', 950, '', 30);
```

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1 row created.

EMPNO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM			
DEPTNO									
7839 10	KING	PRESIDENT		17-NOV-81	5000				
7698 30	BLAKE	MANAGER	7839	09-MAY-81	2850				
7782 10	CLARK	MANAGER	7839	09-JUN-81	2450				
EMPNO	ENAME	ЈОВ		HIREDATE	SAL	СОММ			
DEPTNO									
		MANAGER	7839	02-APR-81	2975				
7788 20		ANALYST	7566	19-APR-87	3000				
7902 20	FORD	ANALYST	7566	03-DEC-81	3000				
EMPNO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM			
DEPTNO									
	SMITH	CLERK	7902	17-DEC-80	800				
7499 30	ALLEN	SALESMAN	7698	20-FEB-81	1600	300			
7521 30	WARD	SALESMAN	7698	22-FEB-81	1250	500			
EMPNO	ENAME	ЈОВ		HIREDATE	SAL	COMM			
DEPTNO									
		SALESMAN	7698	28-SEP-81	1250	1400			
7844 30	TURNER	SALESMAN	7698	08-SEP-81	1500	0			
7876 20	ADAMS	CLERK	7788	23-MAY-87	1100				
EMPNO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM			
DEPTNO									
7900	JAMES	CLERK	7698	03-DEC-81	950				

DEPT TABLE

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

```
SQL> desc DEPT_Bechu
                                           Null? Type
 Name
 -----
 DEPTNO
                                            NOT NULL NUMBER(38)
 DNAME
                                            NOT NULL VARCHAR2(14)
 LOC
                                                      VARCHAR2(13)
SQL> insert into DEPT_Bechu values(10, 'ACCOUNTING', 'NEW YORK');
1 row created.
SQL> insert into DEPT_Bechu values(20, 'RESEARCH', 'DALLAS');
1 row created.
SQL> insert into DEPT_Bechu values(30, 'SALES', 'CHICAGO');
1 row created.
SQL> insert into DEPT_Bechu values(40, 'OPERATIONS', 'BOSTON');
1 row created.
SQL> select * from DEPT_Bechu;
   DEPTNO DNAME
                         LOC
       10 ACCOUNTING NEW YORK
20 RESEARCH DALLAS
30 SALES CHICAGO
40 OPERATIONS BOSTON
SQL> _
```

B) Update and Delete Queries

1) Update the salary of employees working as CLERK by 500

SQL> update EMP_Bechu 2 SET SAL=SAL+500 3 WHERE JOB='CLERK';

4 rows updated.

Run SQL C	ommand Line					
	ENAME				SAL	
DEPTNO						
7566 20		MANAGER	7839	02-APR-81	2975	
7788 20		ANALYST	7566	19-APR-87	3000	
7902 20		ANALYST	7566	03-DEC-81	3000	
EMPNO DEPTNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
7369 20		CLERK	7902	17-DEC-80	1300	
7499 30		SALESMAN	7698	20-FEB-81	1600	300
7521 30		SALESMAN	7698	22-FEB-81	1250	500
EMPNO		ЈОВ				COMM
DEPTNO						
7654 30		SALESMAN	7698	28-SEP-81	1250	1400
7844 30		SALESMAN	7698	08-SEP-81	1500	0
7876 20	ADAMS	CLERK	7788	23-MAY-87	1600	
EMPNO	ENAME	ЈОВ			SAL	
DEPTNO						
7900 30	JAMES	CLERK	7698	03-DEC-81	1450	
7934 10	MILLER	CLERK	7782	23-JAN-82	1800	

2) Update the manager of James as CLARK.

```
SQL> UPDATE EMP_Bechu
2 SET JOB='MANAGER'
3 WHERE ENAME='JAMES';
1 row updated.
```

	EMPNO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM
	DEPTNO						
	7900 30	JAMES	MANAGER	7698	03-DEC-81	1450	
	7934 10	MILLER	CLERK	7782	23-JAN-82	1800	
1	4 rows sel	lected.					
S	QL>						

3) Change the role of Miller as MANAGER.

```
SQL> UPDATE EMP_Bechu
2 SET JOB='MANAGER'
3 WHERE ENAME='MILLER';
1 row updated.
```

4) Delete the records of Manager

```
Run SQL Command Line
14 rows selected.
SQL> delete from EMP_Bechu
2 WHERE JOB='MANAGER';
5 rows deleted.
SQL> select * from EMP_Bechu;
                               MGR HIREDATE SAL COMM
   EMPNO ENAME
                                                        COMM
  DEPTNO
    7839 KING
                 PRESIDENT
                                  17-NOV-81
                                                5000
      10
                              7566 19-APR-87
    7788 SCOTT
                 ANALYST
                                                3000
      20
    7902 FORD
                 ANALYST
                              7566 03-DEC-81
                                                3000
      20
                JOB
                                               SAL
   DEPTNO
   EMPNO ENAME
                               MGR HIREDATE
                                                        COMM
    7369 SMITH CLERK 7902 17-DEC-80 1300
      20
    7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300
      30
    7521 WARD SALESMAN 7698 22-FEB-81 1250 500
      30
                                                SAL
   EMPNO ENAME
                  JOB
                               MGR HIREDATE
                                                        COMM
   DEPTNO
                              7698 28-SEP-81
    7654 MARTIN
                                               1250
                SALESMAN
                                                        1400
      30
                              7698 08-SEP-81
    7844 TURNER
                 SALESMAN
                                               1500
                                                           0
      30
    7876 ADAMS
                 CLERK
                              7788 23-MAY-87
                                               1600
```

5) Delete the records when salary is greater than 1000.

20

9 rows selected.

SQL>

```
SQL> delete from EMP_Bechu
2 WHERE SAL>1000;
9 rows deleted.

SQL> select * from EMP_Bechu;
no rows selected

SQL>
```