

## **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	COMM	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

**DEPT TABLE**

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

## SQL Worksheet

Clear

Find

Actions ▾

Save

Run

```
1 insert into dev_DEPT values(10,'ACCOUNTING','NEW YORK');
2
3 insert into dev_DEPT values(20,'RESEARCH','DALLAS');
4
5 insert into dev_DEPT values(30,'SALES','CHICAGO');
6
7 insert into dev_DEPT values(40,'OPERATIONS','BOSTON');
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

## SQL Worksheet

Clear

Find

Actions ▾

Save

Run

```
1 insert into dev_DEPT values(10,'ACCOUNTING','NEW YORK');
2
3 insert into dev_DEPT values(20,'RESEARCH','DALLAS');
4
5 insert into dev_DEPT values(30,'SALES','CHICAGO');
6
7 insert into dev_DEPT values(40,'OPERATIONS','BOSTON');
8 select * from dev_DEPT;
```

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

Live SQL

Feedback

Help

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SQL Worksheet

Clear

Find

Actions

Save

Run

```

1 insert into dev_EMP values(7839,'KING','PRESIDENT',NULL,'17-NOV-81',5000,NULL,10);
2
3 insert into dev_EMP values(7698,'BLAKE','MANAGER',7839,'1-MAY-81',2850,NULL,30);
4
5 insert into dev_EMP values(7782,'CLARK','MANAGER',7839,'09-JUN-81',2450,NULL,10);
6
7 insert into dev_EMP values(7566,'JONES','MANAGER',7839,'02-APR-81',2975,NULL,20);
8
9 insert into dev_EMP values(7788,'SCOTT','ANALYST',7566,'19-APR-87',3000,NULL,20);
10
11 insert into dev_EMP values(7902,'FORD','ANALYST',7566,'03-DEC-81',3000,NULL,20);
12
13 insert into dev_EMP values(7369,'SMITH','CLERK',7902,'17-DEC-80',800,NULL,20);
14
15 insert into dev_EMP values(7499,'ALLEN','SALESMAN',7698,'20-FEB-81',1600,300,30);
16
17 insert into dev_EMP values(7521,'WARD','SALESMAN',7698,'22-FEB-81',1250,500,30);
18
19 insert into dev_EMP values(7654,'MARTIN','SALESMAN',7698,'28-SEP-81',1250,1400,30);
20
21 insert into dev_EMP values(7844,'TURNER','SALESMAN',7698,'08-SEP-81',1500,0,30);
22
23 insert into dev_EMP values(7876,'ADAMS','CLERK',7788,'23-MAY-87',1100,NULL,20);
24
25 insert into dev_EMP values(7900,'JAMES','CLERK',7698,'03-DEC-81',950,NULL,30);
26
27 insert into dev_EMP values(7934,'MILLER','CLERK',7782,'23-JAN-82',1300,NULL,10);
28
29 select * from dev_EMP;

```

EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
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

```

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10
11 insert into dev_EMP values(7902,'FORD','ANALYST',7566,'03-DEC-81',3000,NULL,20);
12
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14
15 insert into dev_EMP values(7499,'ALLEN','SALESMAN',7698,'20-FEB-81',1600,300,30);
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```

EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
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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

## B) Update and Delete Queries

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

## SQL Worksheet

Clear

Find

Actions ▾

Save

Run

```
1 update dev_EMP
2 set SAL=SAL+500
3 where Job='CLERK';
4 select * from dev_EMP;
```

4 row(s) updated.

EMP_NO	ENAME	JOB	MANAGER	START_DATE	SAL	COMM	DEPT_NO
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	2300	-	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	2600	-	20
7900	JAMES	CLERK	7698	03-DEC-81	2450	-	30
7934	MILLER	CLERK	7782	23-JAN-82	2800	-	10

2) Update the manager of James as CLARK.

SQL Worksheet

Clear Find Actions Save Run

```
1 update dev_EMP
2 set Job='CLERK'
3 where Ename='JAMES';
```

1 row(s) updated.

SQL Worksheet

Clear Find Actions Save Run

```
1 update dev_EMP
2 set Job='CLERK'
3 where Ename='JAMES';
4 select * from dev_emp;
```

EMP_ID	ENAME	JOB	SSN	DOB	DEPT	LOC	LEV
7900	JAMES	CLERK	7698	03-DEC-81	2450	-	30

### 3) Change the role of Miller as MANAGER.

SQL Worksheet

Clear Find Actions Save Run

```
1 update dev_EMP
2 set Job='MANAGER'
3 where Ename='MILLER';
```

1 row(s) updated.

## SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 update dev_EMP
2 set Job='MANAGER'
3 where Ename='MILLER';
4 select * from dev_EMP;
```

EMP_NO	ENAME	JOB	MANAGER	HERIDATE	SAL	COMM	DEPT_NO
7934	MILLER	MANAGER	7782	23-JAN-82	2800	-	10

## 4) Delete the records of Manager

## SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 delete from dev_EMP
2 where Job='MANAGER';
```

4 row(s) deleted.

## SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 delete from dev_EMP
2 where Job='MANAGER';
3 select * from dev_EMP;
```

EMP_NO	ENAME	JOB	MANAGER	HERIDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
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	2300	-	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	2600	-	20
7900	JAMES	CLARK	7698	03-DEC-81	2450	-	30

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

SQL Worksheet

Clear Find Actions Save Run

```
1 delete from dev_EMP
2 where SAL>1000;
```

10 row(s) deleted.

SQL Worksheet

Clear Find Actions Save Run

```
1 delete from dev_EMP
2 where SAL>1000;
3 select * from dev_EMP;
```

no data found