## 5.1: Data Manipulation Language

1. **Create Employee table with same structure as EMP table**.

SQL>Create table employee as select \* from emp where 1=3

1. **Write a query to populate Employee table using EMP table’s empno, ename, sal, deptno columns.**

SQL> insert into employee(empno,ename,sal,deptno) select empno,ename,sal,deptno from emp;

28 rows created

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7369 SMITH 800 20

7499 ALLEN 1600 30

7521 WARD 1250 30

7566 JONES 2975 20

7654 MARTIN 1250 30

7698 BLAKE 2850 30

7782 CLARK 2450 10

7788 SCOTT 3000 20

7839 KING 5000 10

7844 TURNER 1500 30

7876 ADAMS 1100 20

7900 JAMES 950 30

7902 FORD 3000 20

7934 MILLER 1300 10

7369 SMITH 800 20

7499 ALLEN 1600 30

7521 WARD 1250 30

7566 JONES 2975 20

7654 MARTIN 1250 30

7698 BLAKE 2850 30

7782 CLARK 2450 10

7788 SCOTT 3000 20

7839 KING 5000 10

7844 TURNER 1500 30

7876 ADAMS 1100 20

7900 JAMES 950 30

7902 FORD 3000 20

7934 MILLER 1300 10

28 rows selected.

1. **Write a query to change the job and deptno of employee whose empno is 7698 to the job and deptno of employee having empno 7788.**

SQL> update employee set job=(select job from employee where empno=7788),deptno=(select deptno from employee where empno=7788) where empno=7698;

Table updated.

1. **Delete the details of department whose department name is ‘SALES’.**

SQL> delete from employee where deptno = (select deptno from department\_master where dept\_name='Sales');

1 row deleted.

1. **Write a query to change the deptno of employee with empno 7788 to that of employee having empno 7698.**

SQL> update employee set deptno=(select deptno from employee where empno=7698) where empno = 7788;

1 row updated.

1. **Insert the following rows to the Employee table through parameter substitution.**

* **1000,Allen, Clerk,1001,12-jan-01, 3000, 2,10**
* **1001,George, analyst, null, 08 Sep 92, 5000,0, 10**
* **1002, Becker, Manager, 1000, 4 Nov 92, 2800,4, 20**
* **1003, 'Bill', Clerk, 1002, 4 Nov 92,3000, 0, 20**

SQL> insert into employee values(&empno,&ename,&job,&mgr,&hiredate,&sal,&comm,&deptno);

Enter value for empno: 1000

Enter value for ename: 'Allen'

Enter value for job: 'Clerk'

Enter value for mgr: 1001

Enter value for hiredate: '12-jan-01'

Enter value for sal: 3000

Enter value for comm: 2

Enter value for deptno: 10

old 1: insert into employee values(&empno,&ename,&job,&mgr,&hiredate,&sal,&comm,&deptno)

new 1: insert into employee values(1000,'Allen','Clerk',1001,'12-jan-01',3000,2,10)

1 row created.

SQL> insert into employee values(&empno,&ename,&job,&mgr,&hiredate,&sal,&comm,&deptno);

Enter value for empno: 1001

Enter value for ename: 'George'

Enter value for job: 'Analyst'

Enter value for mgr: null

Enter value for hiredate: '08-sep-92'

Enter value for sal: 5000

Enter value for comm: 0

Enter value for deptno: 10

old 1: insert into employee values(&empno,&ename,&job,&mgr,&hiredate,&sal,&comm,&deptno)

new 1: insert into employee values(1001,'George','Analyst',null,'08-sep-92',5000,0,10)

1 row created.

SQL> insert into employee values(&empno,&ename,&job,&mgr,&hiredate,&sal,&comm,&deptno);

Enter value for empno: 1002

Enter value for ename: 'Becker'

Enter value for job: 'Manager'

Enter value for mgr: 1000

Enter value for hiredate: '04-nov-92'

Enter value for sal: 2800

Enter value for comm: 4

Enter value for deptno: 20

old 1: insert into employee values(&empno,&ename,&job,&mgr,&hiredate,&sal,&comm,&deptno)

new 1: insert into employee values(1002,'Becker','Manager',1000,'04-nov-92',2800,4,20)

1 row created.

SQL> insert into employee values(&empno,&ename,&job,&mgr,&hiredate,&sal,&comm,&deptno);

Enter value for empno: 1003

Enter value for ename: 'Bill'

Enter value for job: 'Clerk'

Enter value for mgr: 1002

Enter value for hiredate: '04-nov-92'

Enter value for sal: 3000

Enter value for comm: 0

Enter value for deptno: 20

old 1: insert into employee values(&empno,&ename,&job,&mgr,&hiredate,&sal,&comm,&deptno)

new 1: insert into employee values(1003,'Bill','Clerk',1002,'04-nov-92',3000,0,20)

1 row created.