SQL> CREATE TABLE Emp (Empno Number(4) not Null, Ename Varchar2(10), job Varchar2(9), mgr Number(4), Hiredate Date, Sal Number(7,2), Comm Number(7,2), Deptno Number(2));

Table created

================================================================================

SQL> CREATE TABLE Designation\_Master (Design\_code Number(3) Not Null, Design\_name Varchar2(50));

Table created.

=========================================================================

SQL> CREATE TABLE Department\_Master (Dept\_Code Number(2) Not Null, Dept\_name Varchar2(50));

Table created

==================================================================================

SQL> CREATE TABLE Student\_Master ( Student\_Code Number(6) Not Null, Student\_name Varchar2(50) Not Null, Dept\_Code Number(2), Student\_dob Date, Student\_Address Varchar2(240));

Table created.

==================================================================================

SQL> CREATE TABLE Student\_Marks ( Student\_Code Number(6), student\_Year Number Not Null, Subject1 Number(3), Subject2 Number(3), Subject3 Number(3));

Table created.

================================================================================

SQL> CREATE TABLE Staff\_Master (Staff\_code Number(8) Not Null, Staff\_Name Varchar2(50) Not Null, Design\_code NUmber, Dept\_code Number, HireDate Date, Staff\_dob Date, Staff\_address Varchar2(240), Mgr\_code Number(8), Staff\_sal Number(10,2));

Table created.

==================================================================================

SQL> CREATE TABLE Book\_Master( Book\_Code Number(10) Not Null, Book\_Name Varchar2(50) Not Null);

Table created.

=================================================================================

SQL> CREATE TABLE Book\_Transactions (Book\_Code Number, Student\_code Number, Staff\_code Number, Book\_Issue\_date Date Not Null, book\_expected\_return\_date Date Not Null, Book\_actual\_return\_date Date);

Table created.

============================================================================

INSERT INTO Staff\_Master values(1234500, 'V\_sindhuja',1, 1, '08-nov-1998', '08-nov-1970','hno 123', 00001, 24000);

1 row created

INSERT INTO Staff\_Master values(1234501, 'vinitha', 1,2, '10-feb-2003', '10-feb-1970','hno 456',0,15000);

1 row created

INSERT INTO Staff\_Master values(1234502,'Anjali', 3,2,'04-jan-2003', '04-jan-1970','hno 789',00002,18000);

1 row created.

SQL> INSERT INTO Staff\_Master values(1234503,'Shivani',4,3,'04-jan-2000','04-jan-1970','hno 1011',0003,20000);

1 row created.

==================================================================================

SQL> SELECT \* FROM Staff\_Master;

STAFF\_CODE STAFF\_NAME DESIGN\_CODE

---------- -------------------------------------------------- -----------

DEPT\_CODE HIREDATE STAFF\_DOB

---------- --------- ---------

STAFF\_ADDRESS

--------------------------------------------------------------------------------

MGR\_CODE STAFF\_SAL

---------- ----------

1234500 V\_sindhuja 1

1 08-NOV-98 08-NOV-70

hno 123

1 24000

STAFF\_CODE STAFF\_NAME DESIGN\_CODE

---------- -------------------------------------------------- -----------

DEPT\_CODE HIREDATE STAFF\_DOB

---------- --------- ---------

STAFF\_ADDRESS

--------------------------------------------------------------------------------

MGR\_CODE STAFF\_SAL

---------- ----------

1234501 vinitha 1

2 10-FEB-03 10-FEB-70

hno 456

0 15000

STAFF\_CODE STAFF\_NAME DESIGN\_CODE

---------- -------------------------------------------------- -----------

DEPT\_CODE HIREDATE STAFF\_DOB

---------- --------- ---------

STAFF\_ADDRESS

--------------------------------------------------------------------------------

MGR\_CODE STAFF\_SAL

---------- ----------

1234502 Anjali 3

2 04-JAN-03 04-JAN-70

hno 789

2 18000

STAFF\_CODE STAFF\_NAME DESIGN\_CODE

---------- -------------------------------------------------- -----------

DEPT\_CODE HIREDATE STAFF\_DOB

---------- --------- ---------

STAFF\_ADDRESS

--------------------------------------------------------------------------------

MGR\_CODE STAFF\_SAL

---------- ----------

1234503 Shivani 4

3 04-JAN-00 04-JAN-70

hno 1011

3 20000

=================================================================================

==================================================================================

**Data Query Language**

1 SQL> SELECT Staff\_name as name, Design\_code as designation\_code FROM Staff\_Master WHERE (Hiredate <'01-jan-2003') AND Staff\_sal BETWEEN 12000 and 25000;

NAME DESIGNATION\_CODE

-------------------------------------------------- ----------------

V\_sindhuja 1

Shivani 4

=================================================================================

5 SQL> SELECT Staff\_name FROM Staff\_Master WHERE Staff\_name LIKE '%\_%';

STAFF\_NAME

--------------------------------------------------

V\_sindhuja

vinitha

Anjali

Shivani

================================================================================

3 SQL> SELECT \* FROM Staff\_Master WHERE mgr\_code IS NULL;

no rows selected

=================================================================================

2 SQL> SELECT Staff\_code, Staff\_Name, Dept\_code FROM Staff\_master WHERE (MONTHS\_BETWEEN(SYSDATE,HIREDATE))>216 ORDER BY HIREDATE DESC;

STAFF\_CODE STAFF\_NAME DEPT\_CODE

---------- -------------------------------------------------- ----------

1234503 Shivani 3

1234500 V\_sindhuja 1

==================================================================================

4 SQL>SELECT \* FROM Book\_Master WHERE Book\_pub\_year BETWEEN 2001 AND 2004;

BOOK\_CODE BOOK\_NAME BOOK\_PUB\_YEAR

---------- -------------------------------------------------- -------------

BOOK\_PUB\_AUTHOR

--------------------------------------------------

1 abc5 2001

Vinitha

2 abcef 2002

Sindhuja

3 abcf 2003

Shivani

===============================================================================

4 SQL> SELECT \* FROM Book\_Master WHERE (Book\_pub\_year BETWEEN 2001 AND 2004) AND Book\_name LIKE '%&%';

no rows selected

=================================================================================

**SINGLE ROW FUNCTIONS**

1 SQL>SELECT Staff\_Name,LPAD(Staff\_sal,15,'$')Staff\_sal FROM Staff\_Master;

STAFF\_NAME

--------------------------------------------------

STAFF\_SAL

------------------------------------------------------------

V\_sindhuja

$$$$$$$$$$24000

Vinitha

$$$$$$$$$$15000

Anjali

$$$$$$$$$$18000

STAFF\_NAME

--------------------------------------------------

STAFF\_SAL

------------------------------------------------------------

Shivani

$$$$$$$$$$20000

================================================================================

SQL> INSERT INTO STUDENT\_MASTER VALUES(405,'VINITHA',01,'08-JUL-99','HNO123');

1 row created.

SQL> INSERT INTO STUDENT\_MASTER VALUES(427,'SHIVANI',01,'12-FEB-98','HNO456');

1 row created

SQL> INSERT INTO STUDENT\_MASTER VALUES(446,'ANJALI',01,'10-JUN-99','HNO789');

1 row created.

SQL> INSERT INTO STUDENT\_MASTER VALUES(459,'SINDHUJA',01,'08-NOV-98','HNO555');

1 row created.

==================================================================================

SQL> SELECT \* FROM STUDENT\_MASTER;

STUDENT\_CODE STUDENT\_NAME DEPT\_CODE

------------ -------------------------------------------------- ----------

STUDENT\_D

---------

STUDENT\_ADDRESS

--------------------------------------------------------------------------------

405 VINITHA 1

08-JUL-99

HNO123

427 SHIVANI 1

12-FEB-98

HNO456

STUDENT\_CODE STUDENT\_NAME DEPT\_CODE

------------ -------------------------------------------------- ----------

STUDENT\_D

---------

STUDENT\_ADDRESS

--------------------------------------------------------------------------------

446 ANJALI 1

10-JUN-99

459 SINDHUJA 1

08-NOV-98

STUDENT\_CODE STUDENT\_NAME DEPT\_CODE

------------ -------------------------------------------------- ----------

STUDENT\_D

---------

STUDENT\_ADDRESS

--------------------------------------------------------------------------------

HNO555

==================================================================================

4 SQL> SELECT \* FROM STAFF\_MASTER WHERE TO\_NUMBER(TO\_CHAR(HIREDATE,'DD'))<=15 AND TO\_NUMBER(TO\_CHAR(HIREDATE,'MM'))=12;

no rows selected

==================================================================================

3 SQL> SELECT STAFF\_NAME,ROUND(MONTHS\_BETWEEN(SYSDATE,HIREDATE)) AS MONTHS\_WORKED FROM STAFF\_MASTER ORDER BY MONTHS\_WORKED DESC;

STAFF\_NAME MONTHS\_WORKED

-------------------------------------------------- -------------

V\_sindhuja 255

Shivani 241

Anjali 205

vinitha 203

===========================================================================

2 SQL> SELECT STUDENT\_NAME,TO\_CHAR(STUDENT\_DOB,'MONTH DD YYYY') AS STUDENT\_DOB FROM STUDENT\_MASTER WHERE TO\_CHAR(STUDENT\_DOB,'DAY') LIKE ('%SATURDAY%') OR TO\_CHAR(STUDENT\_DOB,'DAY') LIKE ('%SUNDAY%') ;

STUDENT\_NAME

--------------------------------------------------

STUDENT\_DOB

--------------------------------------------

SINDHUJA

NOVEMBER 08 1998

=============================================================================

5 SQL> SELECT STAFF\_NAME, STAFF\_SAL,

CASE

WHEN STAFF\_SAL >=50000 THEN 'A'

WHEN STAFF\_SAL >25000 AND STAFF\_SAL<50000 THEN 'B'

WHEN STAFF\_SAL >10000 AND STAFF\_SAL<25000 THEN 'C'

ELSE 'D'

END CASE

FROM STAFF\_MASTER;

================================================================================

6 SQL> SELECT STAFF\_NAME, HIREDATE, TO\_CHAR(HIREDATE,'DAY') AS DAY FROM STAFF\_MASTER ORDER BY NEXT\_DAY(HIREDATE,'MONDAY')-HIREDATE DESC;

STAFF\_NAME HIREDATE

-------------------------------------------------- ---------

DAY

------------------------------------

MADHAVA 10-FEB-03

MONDAY

SIRI 04-JAN-00

TUESDAY

THARUNI 04-JAN-03

SATURDAY

STAFF\_NAME HIREDATE

-------------------------------------------------- ---------

DAY

------------------------------------

MADHU 08-NOV-98

SUNDAY

=================================================================================

7 SQL> SELECT INSTR('mississippi','i',1,3) from Dual;

INSTR('MISSISSIPPI','I',1,3)

----------------------------

8?

9 SQL> SELECT STUDENT\_CODE, STUDENT\_NAME,

CASE

WHEN DEPT\_CODE=1 THEN 'ELECTRONICS'

WHEN DEPT\_CODE=2 THEN 'ELECTRICALS'

ELSE 'OTHERS'

END AS "DEPT\_NAME"

FROM STUDENT\_MASTER;

STUDENT\_CODE STUDENT\_NAME DEPT\_NAME

------------ -------------------------------------------------- -----------

405 VINITHA ELECTRONICS

427 SHIVANI OTHERS

446 ANJALI ELECTRICALS

459 SINDHUJA ELECTRONICS

=================================================================================

**GROUP FUNCTION**

1 SQL> SELECT DEPT\_CODE ,ROUND(MIN(STAFF\_SAL)) AS MINIMUM,ROUND(MAX(STAFF\_SAL)) AS MAXIMUM,ROUND(SUM(STAFF\_SAL)) AS TOTAL,ROUND(AVG(STAFF\_SAL)) AS AVERAGE FROM STAFF\_MASTER GROUP BY DEPT\_CODE;

DEPT\_CODE MINIMUM MAXIMUM TOTAL AVERAGE

---------- ---------- ---------- ---------- ----------

1 24000 24000 24000 24000

2 15000 18000 33000 16500

3 20000 20000 20000 20000

============================================================================

2 SQL> SELECT DEPTNO, COUNT(MGR) AS NUMBER\_OF\_MANAGERS FROM EMP GROUP BY DEPTNO;

DEPTNO NUMBER\_OF\_MANAGERS

---------- ------------------

1 2

1

2 3

3 2

=================================================================================

3 SQL> SELECT DEPTNO, SUM(SAL) AS SALARY FROM EMP WHERE JOB NOT LIKE 'MANAGER' GROUP BY DEPTNO HAVING SUM(SAL)>20000 ORDER BY DEPTNO;

DEPTNO SALARY

---------- ----------

2 150000

3 110000

40000

==================================================================================

**JOINS AND SUBQUERIES**

SQL> INSERT INTO DEPARTMENT\_MASTER VALUES(1, 'ECE');

1 row created.

SQL> INSERT INTO DEPARTMENT\_MASTER VALUES(2, 'EEE');

1 row created.

SQL> INSERT INTO DEPARTMENT\_MASTER VALUES(3, 'CSE');

1 row created.

==============================================================================

1 SQL> SELECT S.STAFF\_NAME, S.DEPT\_CODE, D.DEPT\_NAME,S.STAFF\_SAL FROM STAFF\_MASTER S, DEPARTMENT\_MASTER D WHERE S.DEPT\_CODE = D.DEPT\_CODE AND STAFF\_SAL>20000;

STAFF\_NAME DEPT\_CODE

-------------------------------------------------- ----------

DEPT\_NAME STAFF\_SAL

-------------------------------------------------- ----------

V\_sindhuja 1

ECE 24000

================================================================================

2 SQL> select s.staff\_code as staff##, s.staff\_name as staff, d.dept\_name, s.mgr\_code as mgr# from staff\_master s, department\_master d where s.dept\_code = d.dept\_code;

=============================================================================

3 SQL> SELECT S.STUDENT\_CODE, S.STUDENT\_NAME, B.BOOK\_CODE, BB.BOOK\_NAME FROM STUDENT\_MASTER S, BOOK\_TRANSACTIONS B, BOOK\_MASTER BB WHERE S.STUDENT\_CODE=B.STUDENT\_CODE AND B.BOOK\_CODE=BB.BOOK\_CODE AND TO\_CHAR(B.BOOK\_EXPECTED\_RETURN\_DATE,'DD MM YYYY') LIKE TO\_CHAR(SYSDATE,'DD MM YYYY');

STUDENT\_CODE STUDENT\_NAME BOOK\_CODE

------------ -------------------------------------------------- ----------

BOOK\_NAME

--------------------------------------------------

405 VINITHA 1

abc5

=================================================================================

4 SQL> select s.staff\_code, s.staff\_name, d.dept\_name,dm.design\_name, b.book\_code,bm.book\_name, b.book\_issue\_date from staff\_master s, department\_master d, designation\_master dm, book\_transactions b, book\_master bm where s.staff\_code=b.staff\_code and s.dept\_code=d.dept\_code and s.design\_code= dm.design\_code and b.book\_code=bm.book\_code and months\_between(to\_char(b.book\_issue\_date,'mm'),to\_char(sysdate,'mm'))<1;

==================================================================================

==================================================================================

**DATABASE OBJECTS:**

1 SQL> CREATE TABLE CUSTOMER(CUSTOMERID NUMBER(5), CUST\_NAME VARCHAR2(20), ADDRESS1 VARCHAR2(30), ADDRESS2 VARCHAR2(30));

Table created.

====================================================================

2SQL> ALTER TABLE CUSTOMER RENAME COLUMN CUST\_NAME TO CUSTOMERNAME;

Table altered.

===================================================================

2SQL> Alter table customer modify customername varchar2(30) Not Null;

Table altered.

=============================================================

3SQL> ALTER TABLE CUSTOMER ADD( GENDER VARCHAR2(1), AGE NUMBER(3), PHONENO NUMBER(10));

Table altered.

========================================================================

SQL> DESC CUSTOMER

Name Null? Type

----------------------------------------- -------- ----------------------------

CUSTOMERID NUMBER(5)

CUSTOMERNAME NOT NULL VARCHAR2(30)

ADDRESS1 VARCHAR2(30)

ADDRESS2 VARCHAR2(30)

GENDER VARCHAR2(1)

AGE NUMBER(3)

PHONENO NUMBER(10)

3B SQL> RENAME CUSTOMER TO CUST\_TABLE;

Table renamed.

==================================================================================

4 SQL> INSERT INTO CUST\_TABLE VALUES(1000, 'ALLEN', '#115CHICAGO', '#115CHICAGO','M',25,7878776);

1 row created.

SQL> INSERT INTO CUST\_TABLE VALUES(1001, 'GEORGE', '#116FRANCE', '#116FRANCE','M',25,434524);

1 row created.

SQL> INSERT INTO CUST\_TABLE VALUES(1002, 'Becker', '#114 New York', '#114 New York', 'M', 45, 431525);

1 row created.

SQL> SELECT \* FROM CUST\_TABLE;

CUSTOMERID CUSTOMERNAME ADDRESS1

---------- ------------------------------ ------------------------------

ADDRESS2 G AGE PHONENO

------------------------------ - ---------- ----------

1000 ALLEN #115CHICAGO

#115CHICAGO M 25 7878776

1001 GEORGE #116FRANCE

#116FRANCE M 25 434524

1002 Becker #114 New York

#114 New York M 45 431525

==================================================================================

5 SQL> ALTER TABLE CUST\_TABLE ADD CONSTRAINT CUSTID\_PRIM PRIMARY KEY (CUSTOMERID);

Table altered.

==================================================================================

6 SQL> INSERT INTO CUST\_TABLE VALUES(1002, 'John', '#114 Chicago', '#114 Chicago', 'M', 45, 439525);

INSERT INTO CUST\_TABLE VALUES(1002, 'John', '#114 Chicago', '#114 Chicago', 'M', 45, 439525)

\*

ERROR at line 1:

ORA-00001: unique constraint (SYS.CUSTID\_PRIM) violated

==================================================================================

7 SQL> ALTER TABLE CUST\_TABLE DISABLE CONSTRAINT CUSTID\_PRIM;

Table altered.

SQL> INSERT INTO CUST\_TABLE VALUES(1002, 'Becker', '#114 New York', '#114 New york','M', 45, 431525);

1 row created.

SQL> INSERT INTO CUST\_TABLE VALUES(1003, 'Nanapatekar', '#115 India', '#115 India', 'M', 45, 431525);

1 row created.

==================================================================================

8SQL> ALTER TABLE CUST\_TABLE ENABLE CONSTRAINT CUSTID\_PRIM;

ALTER TABLE CUST\_TABLE ENABLE CONSTRAINT CUSTID\_PRIM

\*

ERROR at line 1:

ORA-02437: cannot validate (SYS.CUSTID\_PRIM) - primary key violated

=================================================================================

9 SQL> ALTER TABLE CUST\_TABLE DROP CONSTRAINT CUSTID\_PRIM;

Table altered.

SQL> INSERT INTO CUST\_TABLE VALUES(1002, 'Becker', '#114 New York', '#114 New york' , 'M', 45, 431525, 15000.50);

INSERT INTO CUST\_TABLE VALUES(1002, 'Becker', '#114 New York', '#114 New york' , 'M', 45, 431525, 15000.50)

\*

ERROR at line 1:

ORA-00913: too many values

SQL> INSERT INTO CUST\_TABLE VALUES(1003, 'Nanapatekar',' #115 India', '#115 India' , 'M', 45, 431525, 20000.50);

INSERT INTO CUST\_TABLE VALUES(1003, 'Nanapatekar',' #115 India', '#115 India' , 'M', 45, 431525, 20000.50)

\*

ERROR at line 1:

ORA-00913: too many values

=================================================================================

10 SQL> TRUNCATE TABLE CUST\_TABLE;

Table truncated.

SQL> SELECT \* FROM CUST\_TABLE;

no rows selected.

==================================================================================

11 SQL> ALTER TABLE CUST\_TABLE ADD ( E\_MAIL VARCHAR2(20));

Table altered.

SQL> DESC CUST\_TABLE

Name Null? Type

----------------------------------------- -------- ----------------------------

CUSTOMERID NUMBER(5)

CUSTOMERNAME NOT NULL VARCHAR2(30)

ADDRESS1 VARCHAR2(30)

ADDRESS2 VARCHAR2(30)

GENDER VARCHAR2(1)

AGE NUMBER(3)

PHONENO NUMBER(10)

E\_MAIL VARCHAR2(20)

==================================================================================

13SQL> create table suppliers as (select customerid as suppid, customername as sname, address1 as addr1, address2 as addr2, phoneno as contactno from cust\_table);

Table created.

13 SQL> desc suppliers

Name Null? Type

----------------------------------------- -------- ----------------------------

SUPPID NUMBER(5)

SNAME NOT NULL VARCHAR2(30)

ADDR1 VARCHAR2(30)

ADDR2 VARCHAR2(30)

CONTACTNO NUMBER(10)

==================================================================================

14 SQL> drop table suppliers;

Table dropped.

SQL> create table customermaster(

customerid number(5),

customername varchar2(30) not null,

address1 varchar2(30) not null,

address2 varchar2(30),

gender varchar2(1),

age number(3),

phoneno number(10),

constraint custid\_pk primary key (customerid)

);

Table created.

==================================================================================

15 SQL> create table accountsmaster(customerid number(5), accountnumber number(10,2), accounttype char(3), ledgerbalance number(10,2) not null, constraint acc\_pk primary key (accountnumber));

Table created.

SQL> create sequence accountno

start with 101

increment by 1

minvalue 101

maxvalue 1000000000.00

cache 101;

Sequence created.

================================================================================

16SQL>Alter table Accountsmaster ADD constraint ass\_fk FOREIGN KEY(customerid) REFERENCES customermaster(customerid);

Table altered

==================================================================================

17 SQL> insert into customermaster values(1000, 'Allen',' #115 Chicago', '#115 Chicago', 'M', 25, 7878776);

1 row created.

SQL> insert into customermaster values(1001, 'George', '#116 France', '#116 France', 'M', 25, 434524);

1 row created.

SQL> insert into customermaster values(1002, 'Becker', '#114 New York', '#114 New York', 'M', 45, 431525);

1 row created.

==================================================================================

18 SQL> alter table accountsmaster add constraint ck\_acc check(accounttype='NRI' or accounttype='IND');

Table altered.

==================================================================================

19 SQL> alter table accountsmaster add constraint balance\_check check(ledgerbalance>5000);

Table altered.

===============================================================

20

================================================================================

21SQL> create table AccountDetails as select \* from accountsmaster;

Table created

===============================================================================

22SQL> create view Acc\_view as select Customerid as customercode, AccountNumber as AccountNumber, AccountType as Type, LedgerBalance as balance from accountsmaster;

View created.

==================================================================================

23SQL> CREATE VIEW vAccs\_Dtls AS SELECT Accounttype,ledgerbalance from Accountsmaster where accounttype = 'IND' and ledgerbalance > 10000;

View created.

==================================================================================

24 SQL> create view accsvw10 as

select a.customerid as "Customer Code",

c.customername as "Account Holder Name",

a.accountnumber as "Account Number",

a.accounttype as "Type",

a.ledgerbalance as "Balance"

from accountsmaster a,customermaster c

where c.customerid=a.customerid

and a.accounttype like '%nri'

and a.ledgerbalance<7000

with read only;

View created.

=================================================================================

25 SQL> create sequence seq\_dept

2 start with 40

3 increment by 10

4 minvalue 40

5 maxvalue 200;

Sequence created.

=================================================================================

=================================================================================

**DATA MANIPULATION LANGUAGE**

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

Table created.

SQL> desc employee;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NOT NULL NUMBER(4)

ENAME VARCHAR2(10)

JOB VARCHAR2(9)

MGR NUMBER(4)

HIREDATE DATE

SAL NUMBER(7,2)

COMM NUMBER(7,2)

DEPTNO NUMBER(2)

SQL> select \* from employee;

no rows selected

==================================================================================

2 SQL> insert into employee(empno,ename, sal,deptno) values( 7369,'smith',800,20);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7499,'allen',1600,30);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7521,'ward',1250,30);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7566,'jones',2975,20);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7654,'martin',1250,30);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7698,'blake',2850,30);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7782,'clark',2450,10);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7788,'scott',3000,20);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7839,'king',5000,10);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7844,'turner',1500,30);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7876,'adams',1100,20);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7900,'james',950,30);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7902,'ford',3000,20);

1 row created.

SQL> insert into employee(empno,ename, sal,deptno) values( 7934,'miller',1300,10);

1 row created.

SQL> select \* from employee;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

---------- ---------- --------- ---------- --------- ---------- ---------- ----------

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

14 rows selected.

==================================================================================

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

1row updated

=================================================================================

4SQL> delete from employee where deptno=(select dept\_code from department\_master where dept\_name like '%sales');

0 rows deleted.

==================================================================================

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

1 row updated.

================================================================================

6SQL> insert into employee(empno,ename,job,mgr,hiredate,sal,comm,deptno) values (1000,'allen','clerk',1001,'12-jan-01',3000,2,10);

1 row created.

SQL> insert into employee(empno,ename,job,mgr,hiredate,sal,comm,deptno) values (1001,'george','analyst',null,'08-sep-92',5000,0,10);

1 row created.

SQL> insert into employee(empno,ename,job,mgr,hiredate,sal,comm,deptno) values (1002,'becker','manager',1000,'04-nov-92',2800,4,20);

1 row created.

SQL> insert into employee(empno,ename,job,mgr,hiredate,sal,comm,deptno) values (1003,'bill','clerk',1000,'04-nov-92',3000,0,20);

1 row created.

SQL> insert into employee(empno,ename,job,mgr,hiredate,sal,comm,deptno) values (1003,'bill','clerk',1000,'04-nov-92',3000,0,20);

1 row created.

=================================================================================

## Transaction Control Language Statements

1 SQL> insert into customermaster(customerid,customername,address1,address2,gender,age,phoneno, salary) values (6000,'john','#115 Chicago','#115 Chicago','m',25,7878776, 10000);

1 row created. ==============================================================================

SQL> insert into customermaster(customerid,customername,address1,address2,gender,age,phoneno, salary) values (6001,'jack','#116 France','#116 France','m',25,434524,20000);

1 row created. ============================================================================

SQL> insert into customermaster(customerid,customername,address1,address2,gender,age,phoneno, salary) values (6002,'james','#114 New York','#114 new York','m',45,431525, 15000.50);

1 row created.

=============================================================================

2 SQL> savepoint sp1;

Savepoint created.

==============================================================================

3 SQL> insert into customermaster(customerid,customername,address1,address2,gender,age,phoneno, salary) values (6003,'john','#114 Chicago','#114 Chicago','m',45,439525, 19000.60);

1 row created.

=================================================================================

4 SQL> roll back to sp1;

Rollback complete.

===============================================================================