EMPLOYEE TABLE SCHEMA

```
SQL> desc Employee;
 Name                                      Null?     Type
 ----------------------------------------- --------  -----------------
 EMPID                                     NOT NULL  NUMBER(38)
 FIRSTNAME                                           VARCHAR2(20)
 LASTNAME                                            VARCHAR2(20)
 MAIL                                                VARCHAR2(30)
 PHONE                                               NUMBER(38)
 CITY                                                NUMBER(38)
 DEPTID                                              NUMBER(38)
 SALARY                                              NUMBER(38)
```

DEPARTMENT TABLE SCHEMA

```
SQL> desc Department;
 Name                                      Null?     Type
 ----------------------------------------- --------  -----------------
 DEPTID                                     NOT NULL  NUMBER(38)
 DEPTNAME                                             VARCHAR2(25)
```

LOCATION TABLE SCHEMA

```
SQL> desc Location;
 Name                                      Null?     Type
 ----------------------------------------- --------  -----------------
 LID                                        NOT NULL  NUMBER(38)
 LNAME                                                VARCHAR2(25)
```

TABLE RELATIONSHIP

```
SQL> ALTER TABLE Employee ADD FOREIGN KEY(DEPTID) REFERENCES Department(DEPTID);

Table altered.

SQL> ALTER TABLE Employee ADD FOREIGN KEY(City) REFERENCES Location(LID);

Table altered.
```

GENERATE SEQUENCE

```
SQL> CREATE SEQUENCE loc_sequence
  2  start with 200
  3  increment by 1
  4  maxvalue 500
  5  nocycle
  6  cache 10;

Sequence created.
```

EMPLOYEE TABLE DATA

```
SQL> select * from Employee;

    EMPID FIRSTNAME           LASTNAME
--------- ------------------- -------------------
MAIL                              PHONE       CITY     DEPTID     SALARY
----------------------------- ---------- ---------- ---------- ----------
      101 Sudipta             Roy
sudipta@gmail.com                  1022        200       1000      15000

      102 Shreya              Gupta
shreya@gmail.com                   1023        202       1001      25000

      103 Anu                 Gupta
Anu@gmail.com                      1033        201       1002      20000
```

DEPARTMENT TABLE DATA

```
SQL> select * from Department;

    DEPTID DEPTNAME
--------- -------------------------
      1000 IT
      1001 Accounts
      1002 Finance
```

LOCATION TABLE DATA

```
SQL> INSERT INTO Location (LID, LNAME)
  2  VALUES (loc_sequence.nextval, 'Kolkata');

1 row created.

SQL> INSERT INTO Location (LID, LNAME)
  2  VALUES (loc_sequence.nextval, 'Delhi');

1 row created.

SQL> INSERT INTO Location (LID, LNAME)
  2  VALUES (loc_sequence.nextval, 'Mumbai');

1 row created.

SQL> select * from Location;

       LID LNAME
---------- ------------------------
       200 Kolkata
       201 Delhi
       202 Mumbai
```

CREATE NEW USER

GRANTING PREVILIGES TO NEW USER CREATED

```
SQL> create user C##Sudipta identified by ab123;

User created.

SQL> GRANT ALL PRIVILEGES TO C##Sudipta;

Grant succeeded.
```

QUERY 1: join-> 3 table
firstname from employee which dept-> deptname, city of employee

```
SQL> SELECT e.firstname, d.deptname, l.lname from SYSTEM.Employee e JOIN SYSTEM.Department d on e.deptid=d.deptid
JOIN SYSTEM.Location l on e.city=l.lid;

FIRSTNAME            DEPTNAME                 LNAME
------------------- ------------------------ ------------------------
Sudipta             IT                       Kolkata
Anu                 Finance                  Delhi
Shreya              Accounts                 Mumbai
```

QUERY 2: print empl-> id firstname, having highest salary
having second highest salary

```
SQL> select empid,firstname,salary from system.Employee order by salary desc fetch first 2 rows only;

    EMPID FIRSTNAME                 SALARY
---------- -------------------- ----------
      102 Shreya                    25000
      103 Anu                       20000
```