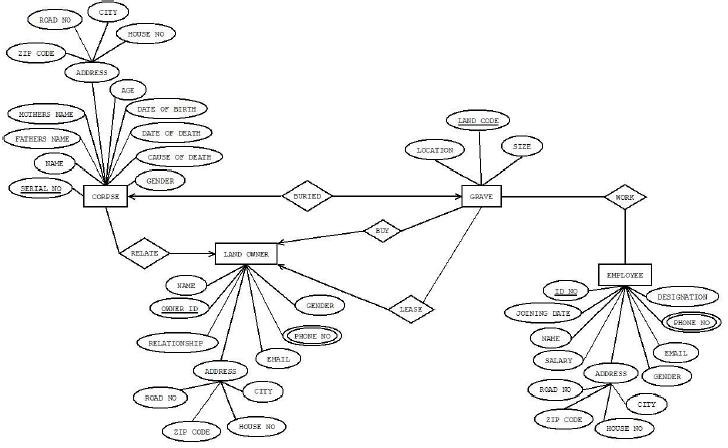
|  |  |  |
| --- | --- | --- |
| **Name** | **ID** | **STUDENTSIGN** |
| **Sudipta Saha** | **20-42143-1** | **Sudipta** |

ClassTest04

1. Normalize the ER Diagram given below up to 3rdNormal Form and finalize the tables that needsto be created. Then (in Oracle using SQL) write down the queries that are required to create allthetableswithnecessaryconstraints. Also insert at least3rowsofdataineachcreatedtable.



UNF

**Buried**(serialno.,name,gender,mother’sname,father’sname,causeofdeath,dateofbirth,dateof

death, age, zip code, road no., house no., city, land code, location, size)

1NF->Thereis nomultivalued attribute.

2NF->serialno.,name,gender,mother’sname,father’sname,causeofdeath,dateofbirth,dateofdeath,

age, zip code, road no., house no., citylandcode,location,size

3NF-> serial no., name, gender, mother’s name, father’s name, cause of death, date of death road no.,house no.

age, date of birthzipcode,city

land code, location, sizeTables from Buried:

1. serial no., name, gender, mother’s name, father’s name, cause of death, date of death road no.,house no., a\_id,z\_id, landcode
2. a\_id, age, dateof birth
3. z\_id,zipcode,city
4. landcode,location,size

UNF

**Relate** (serial no., name, gender, mother’s name, father’s name, cause of death, date of birth, date ofdeath, age, zip code, road no., house no., city, owner id, name, relationship, gender, phone no., email, zipcode,roadno.,houseno.,city)

1NF->Phone no.isamultivaluedattribute.

2NF->serialno.,name,gender,mother’sname,father’sname,causeofdeath,dateofbirth,dateofdeath,

age, zipcode, roadno.,houseno.,city

ownerid,name, relationship,gender,phone no.,email,zipcode,roadno.,houseno.,city

3NF-> serial no., name, gender, mother’s name, father’s name, cause of death, date of death road no.,house no.age, date of birthzipcode,city

owner id, name, relationship, gender, phone no., email, road no., house no.zipcode,city

TablesfromRelate:

* 1. serial no., name, gender, mother’s name, father’s name, cause of death, date of death road no.,house no., a\_id,z\_id
  2. a\_id, age, dateof birth
  3. z\_id,zipcode,city
  4. ownerid,name, relationship,gender,email,roadno.,houseno.,z\_id,serialno.
  5. z\_id,zipcode,city
  6. ownerid,phoneno.

UNF

**Buy** (owner id, name, relationship, gender, phone no., email, zip code, road no., house no., city, landcode,location,size)

1NF->Phone no.isamultivaluedattribute.

2NF->ownerid,name, relationship,gender,phone no.,email,zipcode,roadno.,houseno.,citylandcode,location,size

3NF->ownerid,name,relationship,gender,phone no.,email,roadno.,houseno.,zipcode,city

land code, location, sizeTables fromBuy:

1. ownerid,name, relationship,gender,email,roadno.,house no.,z\_id
2. z\_id,zipcode,city
3. ownerid,phoneno.
4. landcode,location,size,owner id

UNF

**Lease** (owner id, name, relationship, gender, phone no., email, zip code, road no., house no., city, landcode,location,size)

1NF->Phone no.isamultivaluedattribute.

2NF->ownerid,name, relationship,gender,phone no.,email,zipcode,roadno.,houseno.,citylandcode,location,size

3NF->ownerid,name,relationship,gender,phoneno.,email,roadno.,houseno.,zipcode,city

land code, location, sizeTables from Lease:

1. ownerid,name, relationship,gender,email,roadno.,house no.,z\_id
2. z\_id,zipcode,city
3. ownerid,phoneno.
4. landcode,location,size,owner id

UNF

**Work** (land code, location, size, id no., joining date, name, salary, designation, phone no., email, gender,roadno.,houseno.,zipcode,city)

1NF-> Phone no. is a multivalued attribute.2NF-> landcode, location,size

id no., joining date, name, salary, designation, phone no., email, gender, road no., house no., zip code,city

3NF->landcode,location,size

id no., joining date, name, salary, designation, phone no., email, gender, road no., house no.zipcode,city

Tables from Work:

1. landcode,location,size
2. idno.,joiningdate,name,salary,designation,email,gender,roadno.,houseno.,z\_id
3. z\_id,zipcode,city
4. idno. , phoneno.
5. land\_code,id\_no,n\_id

Tables after normalization:

1. serial no., name, gender, mother’s name, father’s name, cause of death, date of death road no.,house no., a\_id,z\_id, landcode
2. a\_id, age, dateof birth
3. z\_id,zipcode,city
4. ~~landcode,location,size~~
5. s~~erial no., name, gender, mother’s name, father’s name, cause of death, date of death road no~~.,~~house no., a\_id,z\_id~~
6. a\_id, age, dateof birth
7. z\_id,zipcode,city
8. ownerid,name, relationship,gender,email,roadno.,houseno.,z\_id,serialno.
9. ~~z\_id,zipcode,city~~
10. ownerid,phoneno.
11. ownerid,name,relationship, gender.,email,roadno.,houseno.,z\_id
12. z\_id,zipcode,city
13. ownerid,phoneno.
14. landcode,location,size,owner id
15. ownerid,name, relationship,gender,phoneno.,email,roadno.,house no.,z\_id
16. z\_id,zipcode,city
17. ~~ownerid,phoneno~~.
18. ~~landcode,location,size,owner id~~
19. ~~landcode,location,size~~
20. idno.,joiningdate,name,salary,designation,email,gender,roadno.,houseno.,z\_id
21. z\_id,zipcode,city
22. idno. , phoneno.
23. land\_code,id\_no,n\_id

**Table Creation:**

1. owner\_id, owner\_name, relationship, email, phone\_no, gender, zip\_code
2. Serial\_no, name, father\_name, mother\_name, age, dob, dod, cause\_of\_deate, gender, zip\_code, owner\_id
3. zip\_code, road\_no, city, house\_no, c\_name

Final tables:

1. serial no., name, gender, mother’s name, father’s name, cause of death, date of death road no.,house no., a\_id,z\_id, landcode
2. a\_id, age, dateof birth
3. z\_id,zipcode,city
4. ownerid,name, relationship,gender,email,roadno.,houseno.,z\_id,serialno.
5. ownerid,phoneno.
6. landcode,location,size,owner id
7. idno.,joiningdate,name,salary,designation,email,gender,roadno.,houseno.,z\_id
8. idno. , phoneno.
9. land\_code,id\_no,n\_id
10. CREATE TABLE Corpse (

Serial\_no int NOT NULL PRIMARY KEY, c\_name varchar(255) NOT NULL, c\_age int NOT NULL,

father\_name varchar(255), mother\_name varchar(255),

dob varchar(255),

dod varchar(255) NOT NULL, cause\_of\_deate varchar(255) NOT NULL, gender varchar(255),

zip\_code int NOT NULL, land\_code int, owner\_id int

);

INSERT INTO Corpse (Serial\_no, c\_name, c\_age, father\_name, mother\_name, dob, dod, cause\_of\_deate, gender, zip\_code, land\_code, owner\_id)

VALUES (1, Nayem, 27, 'Fahim', 'Laila', '10-20-1999', '10-20-2022', 'Corona', 'Male', 1,

1, 1);

INSERT INTO Corpse (Serial\_no, c\_name, c\_age, father\_name, mother\_name, dob, dod, cause\_of\_deate, gender, zip\_code, land\_code, owner\_id) VALUES (2, 'Bulbul', 27, 'Latu', 'Lukky', '10-20-1999', '10-20-

2022', 'Corona', 'Male', 2, 2, 2);

INSERT INTO Corpse (Serial\_no, c\_name, c\_age, father\_name, mother\_name, dob, dod, cause\_of\_deate, gender, zip\_code, land\_code, owner\_id)

VALUES (3, 'Ish', 27, 'RAZIB', ‘Rokeya', '10-20-1999', '10-20-2022', 'Corona', 'Female', 3,

3, 3);

1. CREATE TABLE Owner(

owner\_id int NOT NULL PRIMARY KEY, owner\_name varchar(255) NOT NULL, relationship varchar(255),

email varchar(255), gender varchar(255),

zip\_code int, land\_code int, num\_id int

);

INSERT INTO Owner(owner\_id, owner\_name, relationship, email, gender, zip\_code, land\_code, num\_id)

VALUES(1, 'Sayem', 'Borther', '[sayemm@some.com](mailto:sayemm@some.com)', 'Male', 1, 1, 1)

INSERT INTO Owner(owner\_id, owner\_name, relationship, email, gender, zip\_code, land\_code, num\_id)

VALUES(2, 'Sakib', 'Father', '[sakib@some.com](mailto:sakib@some.com)', 'Male', 2, 2, 2)

INSERT INTO Owner(owner\_id, owner\_name, relationship, email, gender, zip\_code, land\_code, num\_id)

VALUES(3, 'Shamim', 'Father', '[shamim@some.com](mailto:shamim@some.com)', 'Male', 3, 3, 3)

1. CREATE TABLE Employee(

emp\_id int NOT NULL PRIMARY KEY, join\_date varchar(255) NOT NULL, emp\_name varchar(255) NOT NULL, salary int,

designation varchar(255), email varchar(255), gender varchar(), zip\_code int,

land\_code int, num\_id int

);

INSERT INTO Employee(emp\_id, join\_date, emp\_name, salary, designation, email, gender, zip\_code, land\_code, num\_id)

VALUES(1, '1-1-2012', 'Sakib', 20000, '202', '[sakuib@some.com](mailto:sakuib@some.com)', 'Male', 1, 1, 1)

INSERT INTO Employee(emp\_id, join\_date, emp\_name, salary, designation, email, gender, zip\_code, land\_code, num\_id)

VALUES(1, '1-1-2012', 'Arif', 20000, '202', '[arif@some.com](mailto:arif@some.com)', 'Male', 1, 1, 1)

INSERT INTO Employee(emp\_id, join\_date, emp\_name, salary, designation, email, gender, zip\_code, land\_code, num\_id)

VALUES(1, '1-1-2012', 'Manik', 20000, '202', '[manik@some.com](mailto:manik@some.com)', 'Male', 3, 1, 2)

1. CREATE TABLE Address (

zip\_code int NOT NULL PRIMARY KEY, road\_no INT, city VARCHAR(255), house\_no INT

)

INSERT INTO(zip\_code, road\_no, city, house\_no) VALUES(1, 1, 'Dhaka', 1)

INSERT INTO(zip\_code, road\_no, city, house\_no) VALUES(2, 1, 'Dhaka', 2)

INSERT INTO(zip\_code, road\_no, city, house\_no) VALUES(3, 1, 'Gazipur', 4)

1. CREATE TABLE Grave(

land\_code int NOT NULL PRIMARY KEY, location VARCHAR(255),

size varchar(255)

)

INSERT INTO Grave(Land\_code, location, size) VALUES(1, 'Gazipur', '3/3')

INSERT INTO Grave(Land\_code, location, size) VALUES(2, 'Tangail', '3/3')

INSERT INTO Grave(Land\_code, location, size) VALUES(3, 'Barisal', '3/3')

1. CREATE TABLE PHONE(

Num\_id INT NOT NULL PRIMARY KEY,

phone\_no VARCHAR(255)

)

INSERT INTO PHONE(num\_id, phone\_no) VALUES(1, '01812345678')

INSERT INTO PHONE(num\_id, phone\_no) VALUES(2, '01125836547')

INSERT INTO PHONE(num\_id, phone\_no) VALUES(3, '01323456789')