BITS- Assignment 1- Database Design and Applications

Sl No	Name	Registration ID	Course
1	Rahul K Yadav	2020MT12284	M. Tech Data Analytics

Work Integrated Learning Programmes

BITS Pilani
Pilani | Dubai | Goa | Hyderabad

Subject ID: SSZG518
20 Oct 2020

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1. Problem Statement

In most of the metro's Housing Societies are a preferred option to reside, these societies have several apartments and families living together. In these scenarios there is a need to maintain and manage the Society activities, Members, Families, Facilities, Apartments, Maintenance etc.

All these represent the real-world entities, hold a lot of related data that should be handled for smooth day to day operations of the society. Manually managing all these activities and related data could lead to Redundancy, Loss of Information, Security issues, Incorrect charges, Unsolicited entry to society.

As part of this assignment we are working to create the relational Database which would be used by the Society Members to better administer the data and operations.

1.1 Scope of work – The scope of work for this assignment is to represent Entities and their relations with other entities, find the cardinality of relationship, create ER diagrams, create relational tables and populate them with relevant data, identify the retrieval queries and demonstrate **them in MySQL –**

1.2 Following Entities are part of our problem description

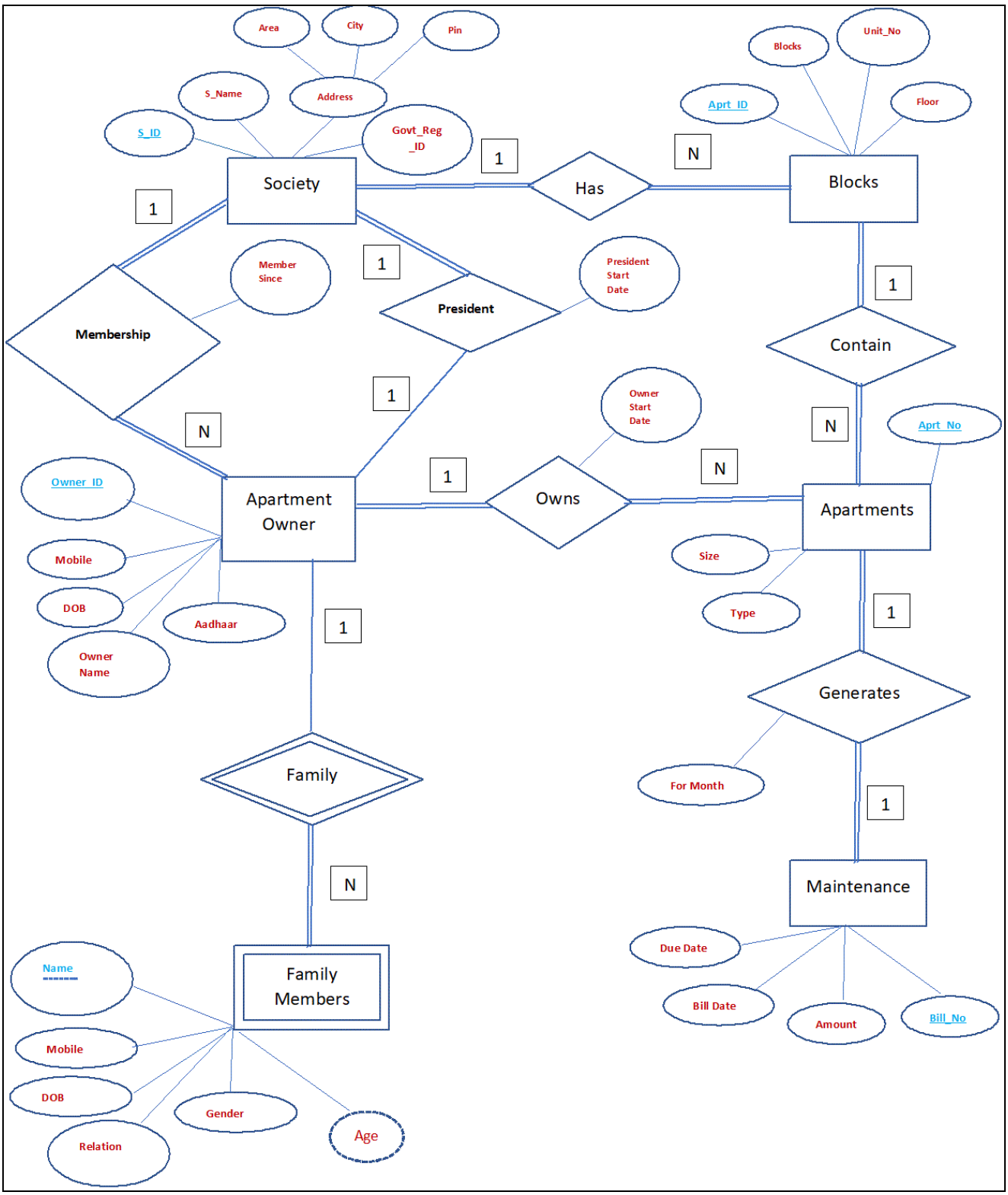
1. Society
2. Apartment Owners
3. Blocks
4. Apartments
5. Family of Owner– **Weak Entity**
6. Maintenance Bill

1.3 Cardinalities and Participation

- Society and Apartment Owner have a **1:N** relation and both entities are in **Total Participation**
- For President relation the Apartment Owner and Society has **1:1** relation, Apartment Owner entity is in **Partial participation** for President relation as not all owners can be president
- Society and Blocks have **1:N** relation and both are in **Total Participation**
- Blocks and Apartments have **1:N** relation and both are in **Total Participation**
- Apartments and Maintenance have **1:1** relation and both are in **Total Participation**
- Apartment Owner and Family (weak entity) have **1:N** relation and Family is in **Total Participation** while Apartment Owner is in **partial participation**

1.4 Out of Scope –Payment and Transactions Management, Visitors Management, Staff Management, Events Management and any other operations not defined in the above-mentioned Entities are out of scope

2. ER Diagrams



* Primary Keys are in Blue and Underlined for Weak entity it's shown with dotted line

3. ER to Relational Mapping

SOCIETY

Society_ID	Gov_Reg_ID	Soc_Name	Address	Pres_Owner_ID	Pres_Start_Date	Area	City	PIN

APARTMENTS

Apt_ID	Apt_No	Apt_Type	Apt_Ownership_Start_Date	Apt_size	Apt_Owner_ID

APT_OWNER

APT_Owner_ID	Owner_Name	Mobile	Email	Society_ID	Adhaar	DOB	Member_Start_Date

MAINTENANCE

Apt_No	Bill_no	Amount	Bill_Date	Due_Date	Bill_Month

FAMILY

Apt_Owner_ID	Name	Relation	Age	Gender	DOB	Mobile

BLOCKS

Society_ID	Block_No	APT_ID	Unit_No	Floor

4. SQL Queries for creating the relations

4.1 Used the below commands to create the Schema and Constraints

```
# Create schemas

# Create tables
CREATE TABLE IF NOT EXISTS SOCIETY
(
    Society_ID INT NOT NULL,
    Gov_Reg_ID INT,
    Soc_Name CHARACTER(20),
    Pres_Owner_ID INT,
    Pres_Start_Date date,
    Area CHARACTER(30),
    City CHARACTER(20),
    PIN INT,
    PRIMARY KEY(Society_ID)
);

CREATE TABLE IF NOT EXISTS APARTMENTS
(

   Apt_No Character (10) NOT NULL,
   Aprt_ID INT NOT NULL,
    Apt_Type CHARACTER(5),
    Apt_Ownership_Start_Date date,
    Apt_size FLOAT(4),
    Aprt_Owner_ID INT,
   PRIMARY KEY(Apt_No)
);

CREATE TABLE IF NOT EXISTS APT_OWNER
(
    APT_Owner_ID INT NOT NULL,
    Owner_Name CHARACTER(20),
    Mobile character(10),
    Email CHARACTER(30),
    Society_ID INT,
    Adhaar INT,
    DOB date,
    Member_Start_Date date,
    PRIMARY KEY(APT_Owner_ID)
);

CREATE TABLE IF NOT EXISTS MAINTENANCE
(
    Aprt_No Character (10) NOT NULL,
    Bill_no CHARACTER(20) NOT NULL,
    Amount INT,
    Bill_Date date,
    Due_Date CHARACTER(8),
    Bill_Month INT,
```

```
    PRIMARY KEY(Bill_no)
);

CREATE TABLE IF NOT EXISTS FAMILY
(
    Apt_Owner_ID INT NOT NULL,
    Name CHARACTER(20) NOT NULL,
    Relation CHARACTER(20),
    Age INT,
    Gender CHARACTER(5),
    Fam_DOB date,
    Fam_Mobile Character(10),
    PRIMARY KEY(Apt_Owner_ID, Name)
);

CREATE TABLE IF NOT EXISTS BLOCKS
(
    Society_ID INT NOT NULL,
    Block_No CHARACTER(20),
    APT_ID INT NOT NULL,
    Unit_No INT,
    Floor CHARACTER(10),
    PRIMARY KEY(APT_ID)
);

# Create FKs
ALTER TABLE SOCIETY
    ADD    FOREIGN KEY (Pres_Owner_ID)
    REFERENCES apt_owner(APT_Owner_ID)
   ;

ALTER TABLE BLOCKS
    ADD    FOREIGN KEY (Society_ID) REFERENCES society (Society_ID)
;

ALTER TABLE APARTMENTS
    ADD
          FOREIGN KEY (APRT_Owner_ID) REFERENCES apt_owner (APT_Owner_ID)
;

ALTER TABLE APT_OWNER
    ADD       FOREIGN KEY (Society_ID) REFERENCES society (Society_ID)
;

ALTER TABLE maintenance
    ADD       FOREIGN KEY (Aprt_No) REFERENCES Apartments (Apt_No)
;
# Create Indexes
```

4.2 Screenshots

Created a DB – db_assignment1 for this assignment purpose

```
MySQL  localhost:3306 ssl  SQL > show databases;
+--------------------+
| Database           |
+--------------------+
| db_assignment1     |
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sys                |
| test1              |
| world              |
+--------------------+
```

Executed the Create Table commands (as mentioned above) and showing the created tables below –

```
MySQL  localhost:3306 ssl  SQL > use db_assignment1;
Default schema set to `db_assignment1`.
Fetching table and column names from `db_assignment1` for auto-completion..
MySQL  localhost:3306 ssl  db_assignment1  SQL > show tables;
+------------------------+
| Tables_in_db_assignment1 |
+------------------------+
| apartments             |
| apt_owner              |
| blocks                 |
| family                 |
| maintenance            |
| society                |
+------------------------+
6 rows in set (0.0019 sec)
MySQL  localhost:3306 ssl  db_assignment1  SQL >
```

4.3 Validating the created Table details

Society Table

```
MySQL  localhost:3306 ssl  db_assignment1  SQL > desc society;
+------------------+----------+------+-----+---------+-------+
| Field            | Type     | Null | Key | Default | Extra |
+------------------+----------+------+-----+---------+-------+
| Society_ID       | int      | NO   | PRI | NULL    |       |
| Gov_Reg_ID       | int      | YES  |     | NULL    |       |
| Soc_Name         | char(20) | YES  |     | NULL    |       |
| Pres_Owner_ID    | int      | YES  | MUL | NULL    |       |
| Pres_Start_Date  | date     | YES  |     | NULL    |       |
| City             | char(20) | YES  |     | NULL    |       |
| PIN              | int      | YES  |     | NULL    |       |
| Area             | char(30) | YES  |     | NULL    |       |
+------------------+----------+------+-----+---------+-------+
8 rows in set (0.0095 sec)
```

Apt_Owner

```
MySQL  localhost:3306 ssl  db_assignment1  SQL > desc apt_owner;
+-------------------+----------+------+-----+---------+-------+
| Field             | Type     | Null | Key | Default | Extra |
+-------------------+----------+------+-----+---------+-------+
| APT_Owner_ID      | int      | NO   | PRI | NULL    |       |
| Owner_Name        | char(20) | YES  |     | NULL    |       |
| Mobile            | char(10) | YES  |     | NULL    |       |
| Email             | char(30) | YES  |     | NULL    |       |
| Society_ID        | int      | YES  | MUL | NULL    |       |
| Adhaar            | int      | YES  |     | NULL    |       |
| DOB               | date     | YES  |     | NULL    |       |
| Member_Start_Date | date     | YES  |     | NULL    |       |
+-------------------+----------+------+-----+---------+-------+
```

Blocks

```
MySQL  localhost:3306 ssl  db_assignment1  SQL > desc blocks;
+------------+----------+------+-----+---------+-------+
| Field      | Type     | Null | Key | Default | Extra |
+------------+----------+------+-----+---------+-------+
| Society_ID | int      | NO   | MUL | NULL    |       |
| Block_No   | char(20) | YES  |     | NULL    |       |
| APT_ID     | int      | NO   | PRI | NULL    |       |
| Unit_No    | int      | YES  |     | NULL    |       |
| Floor      | char(10) | YES  |     | NULL    |       |
+------------+----------+------+-----+---------+-------+
5 rows in set (0.0021 sec)
```

Apartments

```
MySQL localhost:3306 ssl db_assignment1 SQL > desc apartments;
+--------------------------+----------+------+-----+---------+-------+
| Field                    | Type     | Null | Key | Default | Extra |
+--------------------------+----------+------+-----+---------+-------+
| Aprt_ID                  | int      | NO   | MUL | NULL    |       |
| Apt_no                   | char(10) | NO   | PRI | NULL    |       |
| Apt_Type                 | char(5)  | YES  |     | NULL    |       |
| Apt_Ownership_Start_Date | date     | YES  |     | NULL    |       |
| Apt_size                 | float    | YES  |     | NULL    |       |
| Aprt_Owner_ID            | int      | YES  | MUL | NULL    |       |
+--------------------------+----------+------+-----+---------+-------+
```

Maintenance

```
MySQL localhost:3306 ssl db_assignment1 SQL > desc maintenance;
+------------+----------+------+-----+---------+-------+
| Field      | Type     | Null | Key | Default | Extra |
+------------+----------+------+-----+---------+-------+
| Aprt_No    | char(10) | YES  | MUL | NULL    |       |
| Bill_no    | char(20) | NO   | PRI | NULL    |       |
| Amount     | int      | YES  |     | NULL    |       |
| Bill_Date  | date     | YES  |     | NULL    |       |
| Due_Date   | date     | YES  |     | NULL    |       |
| Bill_Month | int      | YES  |     | NULL    |       |
+------------+----------+------+-----+---------+-------+
```

Family

```
MySQL localhost:3306 ssl db_assignment1 SQL > desc family;
+--------------+----------+------+-----+---------+-------+
| Field        | Type     | Null | Key | Default | Extra |
+--------------+----------+------+-----+---------+-------+
| Apt_Owner_ID | int      | NO   | PRI | NULL    |       |
| Name         | char(20) | NO   | PRI | NULL    |       |
| Relation     | char(20) | YES  |     | NULL    |       |
| Age          | int      | YES  |     | NULL    |       |
| Gender       | char(5)  | YES  |     | NULL    |       |
| Fam_DOB      | date     | YES  |     | NULL    |       |
| Fam_Mobile   | char(10) | YES  |     | NULL    |       |
+--------------+----------+------+-----+---------+-------+
```

5. SQL Insert Queries

5.1 Sample Insert Queries Executed to populate the Database

Insert in the Society Table

- INSERT INTO society (Society_ID , Gov_Reg_ID ,Soc_Name, Pres_Start_Date, Area , City , pin) VALUES ('001', '123', 'Aparna Westside', '2020-01-01', 'Huda Rd 1 Neknampur','Hyderabad', '500089');

Insert in the Apt_Owner Table

- INSERT INTO apt_owner (APT_Owner_ID , Owner_Name , Mobile, Email ,Society_ID, Adhaar , dob , Member_Start_Date) VALUES ('1002', 'Ceaser', '9811189092', 'ceaser@bitspilani.com', '001', '19318456','1995-09-15', '2016-06-11');
- INSERT INTO apt_owner (APT_Owner_ID , Owner_Name , Mobile, Email ,Society_ID, Adhaar , dob , Member_Start_Date) VALUES ('1003', 'Mohan', '9911154012', 'mohan@bitspilani.com', '001', '29388486','1992-10-23', '2016-05-11');

Insert in the Blocks Table

- INSERT INTO Blocks (Society_ID , Block_no ,Apt_id, unit_no, floor) VALUES ('001', 'A', '100', '101', 'First');
- INSERT INTO Blocks (Society_ID , Block_no ,Apt_id, unit_no, floor) VALUES ('001', 'A', '101', '102', 'First');
- INSERT INTO Blocks (Society_ID , Block_no ,Apt_id, unit_no, floor) VALUES ('001', 'B', '104', '101', 'First');

Insert in the Apartments Table

- INSERT INTO apartments (Apt_id, Apt_no, Apt_type, apt_ownership_start_date, apt_size, apt_owner_id) VALUES ('102', 'A201', '4 BHK', '2016-01-01', '1995.00','1003');
- INSERT INTO apartments (Apt_id, Apt_no, Apt_type, apt_ownership_start_date, apt_size, apt_owner_id) VALUES ('105', 'C105', '3 BHK', '2015-02-01', '1580.00','1005');

Insert in the Family Table

- INSERT INTO Family (Apt_Owner_ID, Name, relation, age, gender, dob, mobile) VALUES ('1001', 'Deepti', 'Wife', '28', 'F','1992-12-03','9909988888');
- INSERT INTO Family (Apt_Owner_ID, Name, relation, age, gender, dob, mobile) VALUES ('1001', 'R KY', 'Father', '70', 'M','1950-09-17','9819988865');

Insert in the Maintenance Table

- INSERT INTO maintenance (Apt_No, Bill_No, Amount, bill_date, due_date, bill_month) VALUES ('A101', 'MN_A101_102020', '3500', '2020-10-01', '2020-10-10','10');
- INSERT INTO maintenance (Apt_No, Bill_No, Amount, bill_date, due_date, bill_month) VALUES ('A102', 'MN_A102_102020', '2500', '2020-10-01', '2020-10-10','10');
- INSERT INTO maintenance (Apt_No, Bill_No, Amount, bill_date, due_date, bill_month) VALUES ('A201', 'MN_A201_102020', '4500', '2020-10-01', '2020-10-10','10');

5.2 Screen Shots of Insert Query execution

```
MySQL localhost:3306 ssl db_assignment1 SQL > INSERT INTO apt_owner ( APT_Owner_ID , Owner_Name , Mobile, Email ,Society_ID, Adhaar ,  dob  , Member_Start_Date)
                                            ->  VALUES
                                            ->  ( '1004', 'Nagesh', '9935179081',  'Nagesh@bitspilani.com', '001', '24358657','1993-11-25', '2015-09-21');
Query OK, 1 row affected (0.0096 sec)
```

```
MySQL localhost:3306 ssl db_assignment1 SQL > INSERT INTO apt_owner ( APT_Owner_ID , Owner_Name , Mobile, Email ,Society_ID, Adhaar ,  dob  , Member_Start_Date)
                                            ->  VALUES
                                            ->  ( '1005', 'Abhishek', '9877777671',  'Abhishek@bitspilani.com', '001', '25358832','1992-12-15', '2017-10-21');
Query OK, 1 row affected (0.0065 sec)
```

5.3 Screenshots of Tables after Insert Query

Society Table

```
MySQL localhost:3306 ssl db_assignment1 SQL > select * from society;
+------------+------------+---------------+--------------+-----------------+----------+--------+--------------------+
| Society_ID | Gov_Reg_ID | Soc_Name      | Pres_Owner_ID | Pres_Start_Date | City     | PIN    | Area               |
+------------+------------+---------------+--------------+-----------------+----------+--------+--------------------+
|          1 |        123 | Aparna Westside |         1003 | 2020-01-01      | Hyderabad | 500089 | Huda Rd 1 Neknampur |
+------------+------------+---------------+--------------+-----------------+----------+--------+--------------------+
1 row in set (0.0006 sec)
```

Apt_Owner Table

```
MySQL localhost:3306 ssl db_assignment1 SQL > select * from apt_owner;
+-------------+------------+------------+-----------------------+------------+---------+------------+-------------------+
| APT_Owner_ID | Owner_Name | Mobile     | Email                 | Society_ID | Adhaar  | DOB        | Member_Start_Date |
+-------------+------------+------------+-----------------------+------------+---------+------------+-------------------+
|        1001 | Rahul      | 9811100990 | rahul@bitspilani.com  |          1 | 12312456 | 1990-07-14 | 2017-07-01        |
|        1002 | Ceaser     | 9811189092 | ceaser@bitspilani.com |          1 | 19318456 | 1995-09-15 | 2016-06-11        |
|        1003 | Mohan      | 9911154012 | mohan@bitspilani.com  |          1 | 29388486 | 1992-10-23 | 2016-05-11        |
|        1004 | Nagesh     | 9935179081 | Nagesh@bitspilani.com |          1 | 24358657 | 1993-11-25 | 2015-09-21        |
|        1005 | Abhishek   | 9877777671 | Abhishek@bitspilani.com |        1 | 25358832 | 1992-12-15 | 2017-10-21        |
+-------------+------------+------------+-----------------------+------------+---------+------------+-------------------+
5 rows in set (0.0007 sec)
```

Blocks Table

```
MySQL localhost:3306 ssl db_assignment1 SQL > select * from blocks;
+------------+----------+--------+----------+--------+
| Society_ID | Block_No | APT_ID | Unit_No  | Floor  |
+------------+----------+--------+----------+--------+
|          1 | A        |    100 |      101 | First  |
|          1 | A        |    101 |      102 | First  |
|          1 | A        |    102 |      201 | Second |
|          1 | A        |    103 |      301 | Third  |
|          1 | B        |    104 |      101 | First  |
|          1 | C        |    105 |      105 | First  |
+------------+----------+--------+----------+--------+
6 rows in set (0.0144 sec)
```

Apartments Table

```
MySQL  localhost:3306 ssl  db_assignment1  SQL > select * from Apartments;
+---------+--------+----------+--------------------------+----------+---------------+
| Aprt_ID | Apt_no | Apt_Type | Apt_Ownership_Start_Date | Apt_size | Aprt_Owner_ID |
+---------+--------+----------+--------------------------+----------+---------------+
|     100 | A101   | 3 BHK    | 2017-05-01               |     1760 |          1001 |
|     101 | A102   | 2 BHK    | 2016-05-01               |     1260 |          1002 |
|     102 | A201   | 4 BHK    | 2016-01-01               |     1995 |          1003 |
|     103 | A301   | 2 BHK    | 2018-02-01               |     1250 |          1001 |
|     104 | B101   | 3 BHK    | 2016-02-01               |     1580 |          1004 |
|     105 | C105   | 3 BHK    | 2015-02-01               |     1580 |          1005 |
+---------+--------+----------+--------------------------+----------+---------------+
6 rows in set (0.0022 sec)
```

Maintenance Table

```
MySQL  localhost:3306 ssl  db_assignment1  SQL > select * from Maintenance;
+---------+----------------+--------+------------+------------+------------+
| Aprt_No | Bill_no        | Amount | Bill_Date  | Due_Date   | Bill_Month |
+---------+----------------+--------+------------+------------+------------+
| A101    | MN_A101_102020 |   3500 | 2020-10-01 | 2020-10-10 |         10 |
| A102    | MN_A102_102020 |   2500 | 2020-10-01 | 2020-10-10 |         10 |
| A201    | MN_A201_102020 |   4500 | 2020-10-01 | 2020-10-10 |         10 |
| B101    | MN_B101_102020 |   3000 | 2020-10-01 | 2020-10-10 |         10 |
| C105    | MN_C105_102020 |   3000 | 2020-10-01 | 2020-10-10 |         10 |
+---------+----------------+--------+------------+------------+------------+
5 rows in set (0.0006 sec)
```

Family Table

```
MySQL  localhost:3306 ssl  db_assignment1  SQL > select * from Family;
+--------------+--------+----------+-----+--------+------------+------------+
| Apt_Owner_ID | Name   | Relation | Age | Gender | Fam_DOB    | Fam_Mobile |
+--------------+--------+----------+-----+--------+------------+------------+
|         1001 | Deepti | Wife     |  28 | F      | 1992-12-03 | 9909988888 |
|         1001 | RKY    | Father   |  70 | M      | 1950-09-17 | 9819988865 |
|         1002 | CK Y   | Father   |  65 | M      | 1955-02-27 | 9865432865 |
|         1003 | Meena  | Wife     |  25 | F      | 1995-07-11 | 9765432834 |
+--------------+--------+----------+-----+--------+------------+------------+
```

6. SQL Retrieval queries

6.1 Retrieval Queries

Submitting Retrieval Queries which are fetching results from multiple tables using JOINS.

6.1.1 Problem1 :

Find the Name, contact number and Start Date of the President of the Society

Query: Select owner_name, mobile, Pres_Start_Date from apt_owner, society where apt_owner.APT_Owner_ID = society.Pres_Owner_ID;

Results:

```
+------------+------------+-----------------+
| owner_name | mobile     | Pres_Start_Date |
+------------+------------+-----------------+
| Mohan      | 9911154012 | 2020-01-01      |
+------------+------------+-----------------+
1 row in set (0.0010 sec)
```

6.1.2 Problem2:

Find the name of the Owners who are paying Maintenance in the Society also find the Apt Number and Amount they are paying.

Query: Select owner_name, aprt_no , amount from apt_owner, maintenance, apartments where maintenance.Aprt_No = apartments.Apt_No and apartments.Aprt_Owner_ID = apt_owner.Apt_Owner_ID;

Results:

```
+-------------+---------+--------+
| owner_name  | aprt_no | amount |
+-------------+---------+--------+
| Rahul       | A101    |   3500 |
| Rahul       | A301    |   2400 |
| Ceaser      | A102    |   2500 |
| Mohan       | A201    |   4500 |
| Nagesh      | B101    |   3000 |
| Abhishek    | C105    |   3000 |
+-------------+---------+--------+
```

6.1.3 Problem3:

Find the name of the Owner who is paying the Maximum Maintenance in the Society also find the Apt Number and Amount he is paying.

Query: Select Owner_Name, Aprt_No, amount from apt_owner,maintenance, apartments **where amount**
in (select max(amount) from Maintenance) **and** maintenance.Aprt_No = apartments.Apt_No **and**
apartments.Aprt_Owner_ID = apt_owner.Apt_Owner_ID;

Results:

```
nce) and maintenance.Aprt_No = apart
+-------------+---------+--------+
| Owner_Name  | Aprt_No | amount |
+-------------+---------+--------+
| Mohan       | A201    |   4500 |
+-------------+---------+--------+
1 row in set (0.0010 sec)
```

6.1.4 Problem 4:

Find All the apartments those are located at First Floor and their Owners name

Query: Select owner_name, apt_no, floor from apt_owner, apartments, blocks where apartments.aprt_Id = blocks.Apt_ID and apartments.Aprt_Owner_ID = apt_owner.Apt_Owner_ID and floor ='first';

Results:

```
s.Aprt_Owner_ID = apt_owner.Apt_Owner_ID and floor ='first';
+------------+--------+-------+
| owner_name | apt_no | floor |
+------------+--------+-------+
| Rahul      | A101   | First |
| Ceaser     | A102   | First |
| Nagesh     | B101   | First |
| Abhishek   | C105   | First |
+------------+--------+-------+
4 rows in set (0.0008 sec)
```

6.1.5 Problem 5:

Find all the Owners names and their ownership start date who owns flats in the society

Query: Select owner_name, Apt_No, Apt_Ownership_Start_Date from apt_owner, apartments where apartments.Aprt_Owner_ID = apt_owner.Apt_Owner_ID;

Results:

```
MySQL localhost:3306 ssl db_assignment1 SQL > S
Apt_Owner_ID;
+------------+--------+--------------------------+
| owner_name | Apt_No | Apt_Ownership_Start_Date |
+------------+--------+--------------------------+
| Rahul      | A101   | 2017-05-01               |
| Rahul      | A301   | 2018-02-01               |
| Ceaser     | A102   | 2016-05-01               |
| Mohan      | A201   | 2016-01-01               |
| Nagesh     | B101   | 2016-02-01               |
| Abhishek   | C105   | 2015-02-01               |
+------------+--------+--------------------------+
6 rows in set (0.0009 sec)
MySQL localhost:3306 ssl db_assignment1 SQL >
```

6.1.6 Problem 6:

Find all the family members of Apartment Owner Rahul

Query: select Name, relation, Fam_Mobile from family,Apt_owner where Family.Apt_Owner_ID = apt_owner.Apt_Owner_ID and Owner_Name= 'rahul';

```
+--------+----------+------------+
| Name   | relation | Fam_Mobile |
+--------+----------+------------+
| Deepti | Wife     | 9909988888 |
| RKY    | Father   | 9819988865 |
+--------+----------+------------+
2 rows in set (0.0010 sec)
MySQL localhost:3306 ssl db_assignment1 SQL >
```