

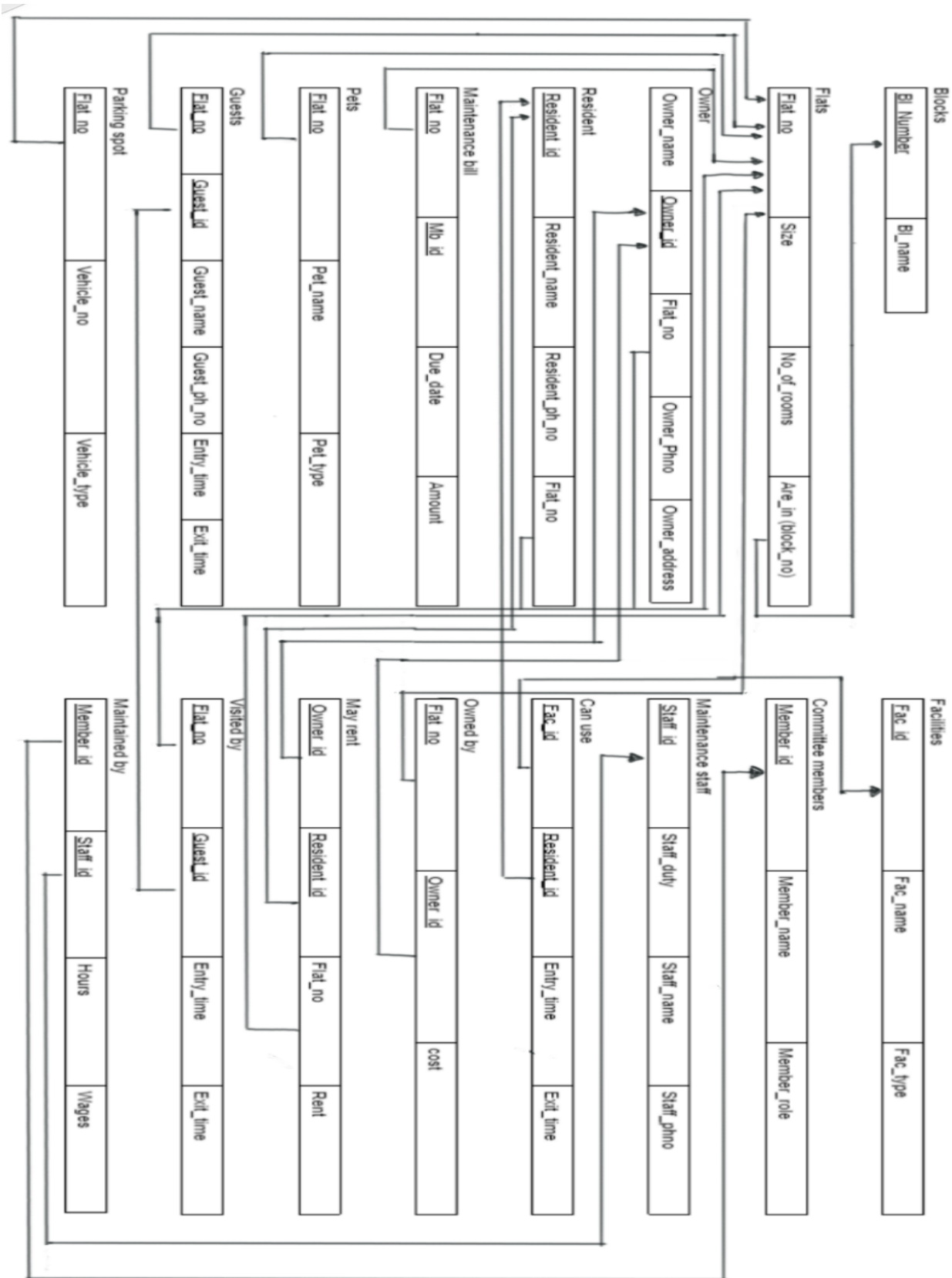
DBMS PROJECT REPORT 2

TITLE: Apartment management system

Team members: Section 'A'

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RELATIONAL TABLE



Choice of DBMS : postgresQL

Reasons for this choice:

1. Open source DBMS.
2. Easy commands.
3. Data model. (it isn't just relational but object relational)
4. It can handle huge amounts of data.
5. Highly stable.

createtable.sql

```
DROP DATABASE 15_57_59;
```

```
CREATE DATABASE 15_57_59;
```

```
\c 15_57_59
```

```
CREATE TYPE addr AS(addrl1 varchar(25),addrl2 varchar(25), pincode INT, state varchar(25));
```

```
CREATE TABLE MAINTENANCE_STAFF(staff_id int, staff_name varchar(25), staff_duty  
varchar(25), staff_phno CHAR(10),PRIMARY KEY(staff_id));
```

```
CREATE TABLE BLOCKS(bl_name varchar(15), bl_number INT, PRIMARY KEY(bl_number));
```

```
CREATE TABLE FLATS(size INT, no_of_rooms INT , flat_no varchar(25),bl_no references  
BLOCKS(bl_number), PRIMARY KEY(flat_no));
```

```
CREATE TABLE OWNER(owner_id INT NOT NULL, owner_name varchar(30),owner_ph_no  
char(10) not null ,owner_addr addr , PRIMARY KEY(owner_id), fl_no references  
flats(flat_no));
```

```
CREATE TABLE OWNED_BY(owner_id INT references OWNER(owner_id), flat_no references  
FLATS(flat_no), cost int, PRIMARY KEY(owner_id, flat_no));
```

```
CREATE TABLE RESIDENT(resident_id INT, resident_name varchar(25), r_phno char(10), fl_no  
references flats(flat_no),PRIMARY KEY(resident_id,flat_no));
```

```
CREATE TABLE MAY_RENT(owner_id INT references OWNER(owner_id), flat_no references  
FLATS(flat_no), resident_id int references RESIDENT(resident_id), rent int, PRIMARY  
KEY(owner_id, resident_id));
```

```
CREATE TABLE MAINTENANCE(mb_id INT , due_date DATE , amount DECIMAL(5,2), flat_no  
varchar(25) references flats(flat_no),PRIMARY KEY(mb_id,flat_no) );
```

```
CREATE TABLE FACILITIES(fac_id INT, fac_name varchar(25), type varchar(25),PRIMARY KEY(fac_id));
```

```
CREATE TABLE CAN_USE(fac_id int references FACILITIES(fac_id), resident_id int references RESIDENT(resident_id), entry_time timestamp,exit_time timestamp, PRIMARY KEY(fac_id, resident_id));
```

```
CREATE TABLE PETS(pet_name varchar(25), pet_type varchar(25), flat_no references resident(flat_no) , PRIMARY KEY(pet_name,flat_no));
```

```
CREATE TABLE GUESTS(guest_id INT, guest_name varchar(25), guest_phno char(10),fl_no references flats(flat_no),PRIMARY KEY(fl_no,guest_id));
```

```
CREATE TABLE VISITED_BY(flat_no references resident(flat_no),guest_id int references GUESTS(guest_id), entry_time timestamp,exit_time timestamp, PRIMARY KEY(fac_id, guest_id));
```

```
CREATE TABLE PARKING_SPOT(veh_no varchar(10),fl_no references flats(flat_no), veh_type varchar(25), PRIMARY KEY(veh_no, fl_no));
```

```
CREATE TABLE COMM_MEM(mem_name varchar(25), mem_role varchar(25), mem_id INT references resident(resident_id), PRIMARY KEY(mem_id));
```

```
CREATE TABLE MAINTAINED_BY(hours DECIMAL(2,2),wage DECIMAL(5,2), staff_id references MAINTENANCE_STAFF(staff_id), mem_id references COMM_MEM(mem_id),PRIMARY KEY(mem_id,staff_id));
```

insertvalues.sql

```
INSERT INTO MAINTENANCE_STAFF(staff_id, staff_name , staff_duty, staff_phno)
VALUES
```

```
(1,'Simran','housekeeping','999999999'),
(2,'Ritu','housekeeping','7234567890'),
(3,'Raju','gardener','8245783691'),
(4,'Sooraj','security','8456123789'),
(5,'Narendar','security','9856321475'),
(6,'Nisha','electrician','7412583695'),
(7,'Sandeep','plumber','9856321473'),
(8,'Amarjeeth','garbage collector','8456123790'),
(9,'Rithika','security','7412583692'),
(10,'Prathap','housekeeping','7481592635');
```

```
INSERT INTO BLOCKS(bl_name, bl_number)
VALUES
```

```
('A',1),
('B',2),
('C',3),
('D',4);
```

```
INSERT INTO FLATS(size,no_of_rooms,flat_no,bl_no)
VALUES
```

```
(1500,3,'AG05',1),
(1200,2,'AS05',1),
(1000,2,'AS03',1),
(1250,1,'BT03',2),
(1450,4,'BG04',2),
(900,1,'BF03',2),
(1500,3,'CS07',3),
(1400,2,'CF06',3),
(1000,2,'CG10',3),
(950,2,'DG15',4);
```

```
INSERT INTO OWNER(owner_id, owner_name ,owner_ph_no ,owner_addr addr , fl_no)
VALUES
```

```
(1,'Pitambar','888888888','(s1','s2',560012,'Karnataka'),'AG05'),
(2,'Ranj','777777777','(s2','s3',560082,'Karnataka'),'AS05'),
(3,'Kesari','878787878','(s4','s5',560014,'Karnataka'),'AS03'),
(4,'Shiv','757575757','(s6','s7',560042,'Karnataka'),'BT03'),
(5,'Sunil','737373737','(s8','s2',560089,'Karnataka'),'BG04'),
(6,'Narayani','7473727171','(s4','s7',560022,'Karnataka'),'BF03'),
(7,'Trishna','6234578123','(s6','s2',560098,'Karnataka'),'CF07'),
```

```
(8,'Neelima','8484848484','('s11','s2',560016,'Karnataka'),'CF06'),  
(9,'Prabhu','7172737475','('s1201','s122',560052,'Karnataka'),'CG10'),  
(10,'Susheel','7475767879','('s14,'s75',560075,'Karnataka'),'DG15') ;
```

```
INSERT INTO OWNED_BY(owner_id,flat_no,cost)
```

```
VALUES
```

```
(1,'AG05',8000000),  
(2,'AS05',7000000),  
(3,'AS03',6000000),  
(4,'BT03',7200000),  
(5,'BG04',7900000),  
(6,'BF03',5000000),  
(7,'CF07',8000000),  
(8,'CF06',7500000),  
(9,'CG10',6000000),  
(10,'DG15',5500000);
```

```
INSERT INTO RESIDENT(resident_id, resident_name, r_phno, fl_no)
```

```
VALUES
```

```
(1,'Pitambar','8888888888','AG05'),  
(2,'Ranj','7777777777','AS05'),  
(3,'Kesari','8787878787','AS03'),  
(4,'Shiv','7575757575','BT03'),  
(5,'Sunil','7373737373','BG04'),  
(6,'Narayani','7473727171','BF03'),  
(7,'Trishna','6234578123','CF07'),  
(8,'Yamuna','7574767172','CF06'),  
(9,'Maya','8485868789','CG10'),  
(10,'Dilip','98979695','DG15');
```

```
INSERT INTO MAY_RENT(owner_id, flat_no, resident_id, rent)
```

```
VALUES
```

```
(8,'CF06', 8, 30000),  
(9,'CG10', 9, 20000),  
(10,'DG15', 10, 15000);
```

```
INSERT INTO MAINTENANCE(mb_id, due_date, amount , flat_no)
```

```
(1,'2021-10-12',4500,'AG05'),  
(2,'2021-10-12',3600,'AS05'),  
(3,'2021-10-12',3000,'AS03'),  
(4,'2021-10-12',3750,'BT03'),  
(5,'2021-10-12',4350,'BG04'),  
(6,'2021-10-12',2700,'BF03'),  
(7,'2021-10-12',4500,'CF07'),
```

```
(8,'2021-10-12',4200,'CF06'),  
(9,'2021-10-12',3000,'CG10'),  
(10,'2021-10-12',2870,'DG15');
```

```
INSERT INTO FACILITIES(fac_id, fac_name, type)
```

```
VALUES
```

```
(1, 'Swimming Pool', 'Outdoor'),  
(2, 'Club House', 'Indoor'),  
(3, 'Play Ground', 'Outdoor'),  
(4, 'Play Ground', 'Indoor'),  
(5, 'Gym', 'Outdoor'),  
(6, 'Gym', 'Indoor'),  
(7, 'Badminton Court', 'Outdoor'),  
(8, 'Football Ground', 'Outdoor'),  
(9, 'Tennis Court', 'Indoor'),  
(10, 'Squash Court', 'Indoor');
```

```
INSERT INTO CAN_USE(fac_id, resident_id, entry_time, exit_time)
```

```
VALUES
```

```
(1, 4, '2021-10-05 14:00:00', '2021-10-05 14:47:00'),  
(2, 5, '2021-10-05 11:00:00', '2021-10-05 14:00:00'),  
(3, 7, '2021-10-05 14:00:00', '2021-10-05 14:00:00'),  
(4, 9, '2021-10-05 16:00:00', '2021-10-05 18:00:00'),  
(6, 8, '2021-10-05 16:00:00', '2021-10-05 18:00:00'),  
(6, 2, '2021-10-05 16:00:00', '2021-10-05 18:00:00'),  
(10, 1, '2021-10-05 19:00:00', '2021-10-05 19:45:00'),  
(10, 9, '2021-10-05 19:00:00', '2021-10-05 19:45:00'),  
(7, 7, '2021-10-05 18:00:00', '2021-10-05 20:00:00'),  
(7, 3, '2021-10-05 18:00:00', '2021-10-05 20:00:00');
```

```
INSERT INTO PETS(pet_name, pet_type, flat_no)
```

```
VALUES
```

```
('jojo', 'dog', 'AG05'),  
(mars', 'dog', 'AG05'),  
(krystal', 'cat', 'BF03'),  
(bruno', 'hamster', 'BF03'),  
(crimson', 'dog', 'CF06'),  
(cody', 'cat', 'DG15');
```

```
INSERT INTO GUESTS(guest_id, guest_name, guest_phno, flat_no)
```

```
VALUES
```

```
(1, 'Jeevan', 9438342412, 'AG05'),  
(2, 'Krishna', 8675546534, 'BF03'),  
(3, 'Jnana', 8643513421, 'CG10');
```

```
INSERT INTO VISITED_BY(flat_no, resident_id, entry_time,exit_time)
('AG05','Jeevan','2021-10-05 11:00:00', '2021-10-05 14:00:00'),
('BF03','Krishna','2021-10-05 10:00:00', '2021-10-05 12:00:00'),
('CG10','Jnana','2021-10-05 07:00:00', '2021-10-05 19:00:00');
```

```
INSERT INTO PARKING_SPOT(veh_no, fl_no, veh_type)
VALUES
('KA05MA1234',AG05,'Car'),
('KA32PL4342',BT03,'Scooter'),
('KA15MW6798',CS07,'Car'),
('KA12AB1314',DG15,'Scooter'),
('KA01KN9890',BF03,'Car');
```

```
INSERT INTO COMM_MEM(mem_name, mem_role, mem_id)
VALUES
('Pitambar','housekeeping head',1),
('Kesari','security head',3),
('Sunil','utilities head',5),
('Maya','chairperson',9);
```

```
INSERT INTO MAINTAINED_BY(staff_id,mem_id,hours,wage)
VALUES
(1,1,120,20000),
(2,1,120,20000),
(3,5,60,20000),
(4,3,240,20000),
(5,3,240,20000),
(6,5,25,16000),
(7,5,45,12000),
(8,5,25,10000),
(9,3,240,20000),
(10,1,120,20000);
```


LIST OF ALL TABLES:

Blocks

<u>Bl_Number</u>	Bl_name
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Flats

<u>Flat_no</u>	Size	No_of_rooms	Are_in (block_no)
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Owner

Owner_name	<u>Owner_id</u>	Flat_no	Owner_Phno	Owner_address
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Resident

<u>Resident_id</u>	Resident_name	Resident_ph_no	Flat_no
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Maintenance bill

<u>Flat_no</u>	<u>Mb_id</u>	Due_date	Amount
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Pets

<u>Flat_no</u>	<u>Pet_name</u>	Pet_type
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Guests

<u>Flat_no</u>	<u>Guest_id</u>	Guest_name	Guest_ph_no	Entry_time	Exit_time
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Parking spot

<u>Flat_no</u>	Vehicle_no	Vehicle_type
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Facilities

<u>Fac_id</u>	Fac_name	Fac_type
---------------	----------	----------

Committee members

<u>Member_id</u>	Member_name	Member_role
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Maintenance staff

<u>Staff_id</u>	Staff_duty	Staff_name	Staff_phno
-----------------	------------	------------	------------

Can use

<u>Fac_id</u>	<u>Resident_id</u>	Entry_time	Exit_time
---------------	--------------------	------------	-----------

Owned by

<u>Flat_no</u>	<u>Owner_id</u>	cost
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May rent

<u>Owner_id</u>	<u>Resident_id</u>	Flat_no	Rent
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Visited by

<u>Flat_no</u>	<u>Guest_id</u>	Entry_time	Exit_time
----------------	-----------------	------------	-----------

Maintained by

<u>Member_id</u>	<u>Staff_id</u>	Hours	Wages
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CONTRIBUTIONS:

Total time spent : 6 hours

NAME	CONTRIBUTIONS
Abhijnya Bhat	Relational table, corrections from Assignment 1
Anagha H M	Code for create table , ½ of insert table code
Anchal Sharma	List of all tables , ½ of insert table code