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Project Name:- Society Database Management System

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Project for SQL module

Ideal for use by society managing committee groups, the society management software keeps a track of all the society's billings and keeps a check on the society members, such as tracking members who have not paid their maintenance dues, etc. The software system can store the data of various flat owners and their family members along with their images. The system also maintains and calculates the society maintenance as well as parking, cultural funds, emergency funds and other charges and adds them automatically in individual flat bill. The system needs an administrator to input various flat owner data and billing amounts into it.

1:- Apartment Information:

- Apartment details such as unit numbers, block/building information, square footage, and floor plans.
- Associated amenities, parking spaces, storage areas, or other facilities linked to each apartment.

2:- Residents' Records:

- Personal information of residents: names, contact details, identification documents, emergency contacts, lease/ownership information.
- Unit assignment, move-in dates, lease/ownership agreements.

3:- Maintenance Management:

- System to log and track maintenance requests raised by residents or discovered through regular checks.
- Maintenance schedules, work orders, assignment to maintenance staff, progress tracking, and completion records.

4:- Events and Community Activities:

- Calendar or module to organize and announce community events, gatherings, meetings, or social activities.
- Event details including dates, times, locations, themes, RSVPs, and attendance tracking.

5:- Complaints Handling:

- A system for residents to submit complaints or grievances regarding maintenance, noise, neighbor disputes, or other issues.
- Complaint resolution process, tracking, and feedback mechanisms.

6:- Payments and Financial Records:

- Recording payment information related to rent, association fees, maintenance fees, or any other charges.
- Invoicing, payment receipts, due dates, outstanding balances, and payment history.

7:- Reporting Tools and Analytics:

- Generating reports on maintenance status, financial summaries, event attendance, complaint trends, and resident demographic information.
- Analyzing data for better decision-making and improving community services.

8:- Communication Logs:

- Tracking communication between management and residents, including announcements, notices, emails, or messages regarding community updates, events, or policies.

9:- Efficient Data Storage:

To systematically store and organize information related to society members, their profiles, contact details, membership status, and other relevant data.

Integrating these functionalities into a society management system can streamline operations, enhance resident satisfaction, and improve the overall management of the apartment community.

ER-Diagram (Entity Relation – Diagram) for society database Management System:-

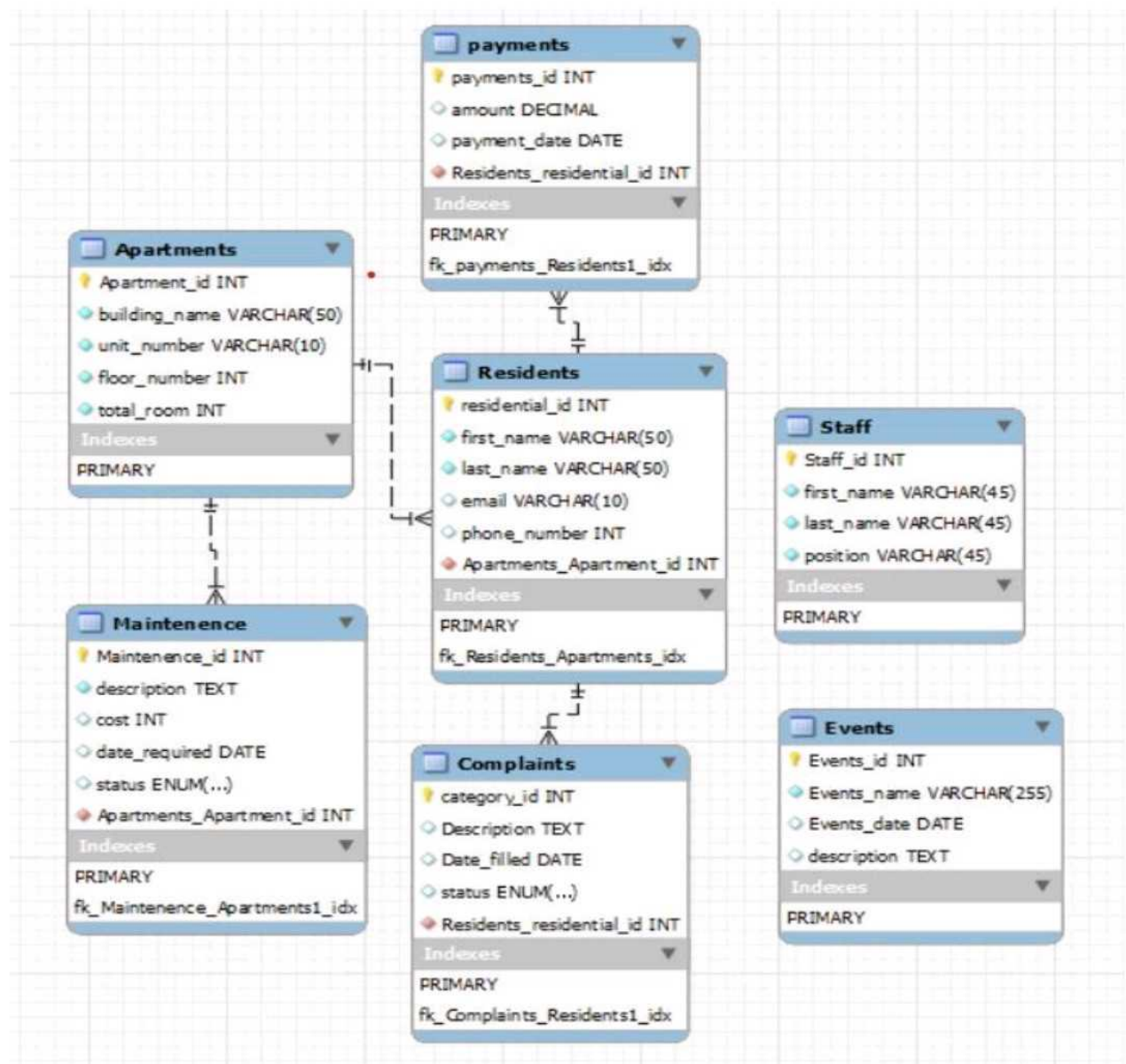


Table Descriptions:-

Commands: -

```
create database society;
```

```
use society;
```

```
CREATE TABLE Apartments (  
    apartment_id INT PRIMARY KEY AUTO_INCREMENT,  
    building_name VARCHAR(50) NOT NULL,  
    unit_number VARCHAR(10) NOT NULL,  
    floor_number INT NOT NULL,  
    total_rooms INT NOT NULL  
);
```

```
INSERT INTO Apartments (building_name, unit_number, floor_number, total_rooms)  
VALUES('Saraswati Heights', '101', 1, 2),  
( 'Ganesh Enclave', '102', 1, 3),  
( 'Krishna Towers', '201', 2, 2),  
( 'Radha Residency', '202', 2, 3),  
( 'Golden Gardens', 'G1', 1, 4),  
( 'Divine Homes', 'G2', 1, 3),  
( 'Skyline Nirvana', 'S101', 10, 2),  
( 'Celestial Towers', 'S102', 10, 3),  
( 'Maple Meadows', 'M1', 5, 2),  
( 'Eternal Greens', 'M2', 5, 3),  
( 'Lakeside Bliss', 'L101', 7, 2),  
( 'Vista Lakeview', 'L102', 7, 3),  
( 'Royal Orchards', 'R1', 3, 4),  
( 'Regal Gardens', 'R2', 3, 3),  
( 'Sunrise Serenity', 'SUN1', 6, 2),  
( 'Palm Haven', 'SUN2', 6, 3),  
( 'Lotus Luxuria', 'P101', 4, 2),  
( 'Palm Grove', 'P102', 4, 3),  
( 'Bharat Heritage', 'L101', 8, 2),  
( 'Lotus Residency', 'L102', 8, 3);
```

```

select * from Apartments;

CREATE TABLE Residents (
    resident_id INT PRIMARY KEY AUTO_INCREMENT,
    first_name VARCHAR(50) NOT NULL,
    last_name VARCHAR(50) NOT NULL,
    email VARCHAR(100) UNIQUE,
    phone_number VARCHAR(15),
    apartment_id INT,
    FOREIGN KEY (apartment_id) REFERENCES Apartments(apartment_id)
);

INSERT INTO Residents (first_name, last_name, email, phone_number, apartment_id)
VALUES
('John', 'Doe', 'john.doe@example.com', '123-456-7890', 1),
('Jane', 'Smith', 'jane.smith@example.com', '987-654-3210', 2),
('Alice', 'Johnson', 'alice.johnson@example.com', '555-123-4567', 3),
('Bob', 'Williams', 'bob.williams@example.com', '222-333-4444', 4),
('Eva', 'Davis', 'eva.davis@example.com', '888-999-0000', 5),
('David', 'Miller', 'david.miller@example.com', '777-666-5555', 6),
('Grace', 'Taylor', 'grace.taylor@example.com', '444-555-6666', 7),
('Tom', 'Anderson', 'tom.anderson@example.com', '111-222-3333', 8),
('Sophia', 'Brown', 'sophia.brown@example.com', '999-888-7777', 9),
('Michael', 'Jones', 'michael.jones@example.com', '777-888-9999', 10),
('Olivia', 'Wilson', 'olivia.wilson@example.com', '555-444-3333', 11),
('Liam', 'Moore', 'liam.moore@example.com', '222-111-0000', 12),
('Emma', 'Hall', 'emma.hall@example.com', '666-777-8888', 13),
('Ryan', 'Martinez', 'ryan.martinez@example.com', '333-444-5555', 14),
('Ava', 'White', 'ava.white@example.com', '777-666-5555', 15),
('Noah', 'Garcia', 'noah.garcia@example.com', '555-666-7777', 16),
('Isabella', 'Scott', 'isabella.scott@example.com', '888-999-1111', 17),
('Mia', 'Adams', 'mia.adams@example.com', '444-555-6666', 18),
('James', 'Clark', 'james.clark@example.com', '222-333-4444', 19),
('Sophie', 'Turner', 'sophie.turner@example.com', '111-222-3333', 20);

select * from Residents;

```

```

Create table maintenance(
maintenance_id INT PRIMARY KEY AUTO_INCREMENT,
    apartment_id INT,
    description TEXT,
    cost DECIMAL(10, 2),
    date_requested DATE,
    status ENUM('Pending', 'Completed', 'Cancelled'),
    FOREIGN KEY (apartment_id) REFERENCES Apartments(apartment_id)
);

INSERT INTO Maintenance (apartment_id, description, cost, date_requested, status)
VALUES
(1, 'Leaky faucet repair', 50.00, '2024-01-08', 'Pending'),
(2, 'Window pane replacement', 75.00, '2024-01-10', 'Completed'),
(3, 'Plumbing checkup', 60.00, '2024-01-12', 'Pending'),
(4, 'Electrical wiring inspection', 80.00, '2024-01-15', 'Completed'),
(5, 'Garden maintenance', 40.00, '2024-01-18', 'Pending'),
(6, 'Roof inspection', 90.00, '2024-01-20', 'Pending'),
(7, 'Elevator servicing', 70.00, '2024-01-22', 'Pending'),
(8, 'Pest control', 55.00, '2024-01-25', 'Pending'),
(9, 'HVAC system repair', 65.00, '2024-01-28', 'Pending'),
(10, 'Appliance maintenance', 85.00, '2024-02-01', 'Pending'),
(11, 'Security system check', 75.00, '2024-02-05', 'Pending'),
(12, 'Painting touch-ups', 40.00, '2024-02-08', 'Pending'),
(13, 'Fire safety inspection', 95.00, '2024-02-12', 'Pending'),
(14, 'Common area cleaning', 50.00, '2024-02-15', 'Pending'),
(15, 'Parking lot repair', 80.00, '2024-02-18', 'Pending'),
(16, 'Landscaping enhancements', 60.00, '2024-02-22', 'Pending'),
(17, 'Wi-Fi system upgrade', 70.00, '2024-02-25', 'Pending'),
(18, 'Trash disposal maintenance', 45.00, '2024-02-28', 'Pending'),
(19, 'Fitness center equipment check', 55.00, '2024-03-03', 'Pending'),
(20, 'Emergency lighting inspection', 65.00, '2024-03-07', 'Pending');

select* from maintenance;

```

```

CREATE TABLE Events (
    event_id INT PRIMARY KEY AUTO_INCREMENT,
    event_name VARCHAR(100) NOT NULL,
    event_date DATE,
    description TEXT
);

INSERT INTO Events (event_name, event_date, description)
VALUES
('Diwali Celebrations', '2024-10-25', 'Join us for a vibrant Diwali celebration with lights and cultural performances.'),
('Holi Festival Extravaganza', '2024-03-17', 'Celebrate the festival of colors with music, dance, and traditional Indian cuisine.'),
('Ganesh Chaturthi Puja', '2024-09-02', 'Participate in the auspicious Ganesh Chaturthi puja followed by a community feast.'),
('Navratri Garba Night', '2024-10-10', 'Get ready for a night filled with energetic Garba dance during the festive Navratri season.'),
('Republic Day Cultural Program', '2024-01-26', 'Enjoy patriotic performances and cultural showcases on the occasion of Republic Day.'),
('Eid-ul-Fitr Feast', '2024-05-12', 'Join us for a grand feast to celebrate the joyous occasion of Eid-ul-Fitr.'),
('Durga Puja Cultural Fair', '2024-10-15', 'Experience the grandeur of Durga Puja with cultural performances, food stalls, and more.'),
('Janmashtami Matki Phod', '2024-08-12', 'Participate in the traditional Matki Phod celebration in honor of Lord Krishna on Janmashtami.'),
('Independence Day Flag Hoisting', '2024-08-15', 'Attend the flag hoisting ceremony and cultural events on Independence Day.'),
('Pongal Harvest Festival', '2024-01-14', 'Celebrate the South Indian harvest festival with traditional Pongal dishes and cultural programs.'),
('Karva Chauth Sargi Breakfast', '2024-11-04', 'Join us for a special Sargi breakfast before the auspicious Karva Chauth fast.'),
('Easter Egg Hunt', '2024-04-05', 'Bring your kids for a fun-filled Easter egg hunt and activities.'),
('Makar Sankranti Kite Flying', '2024-01-15', 'Join us on the terrace for an exciting kite-flying competition on Makar Sankranti.'),
('Baisakhi Bhangra Night', '2024-04-13', 'Celebrate Baisakhi with lively Bhangra dance, music, and delicious Punjabi cuisine.'),
('Eid-ul-Adha Qurbani Feast', '2024-07-20', 'Partake in the joyous feast in celebration of Eid-ul-Adha after the Qurbani ritual.'),
('Gudi Padwa Gudhi Hoisting', '2024-03-25', 'Witness the Gudhi hoisting ceremony on Gudi Padwa, marking the Maharashtrian New Year.'),
('Onam Sadhya Lunch', '2024-09-06', 'Enjoy a traditional Onam Sadhya lunch with a variety of delicious Kerala dishes.'),
('Dussehra Ravan Dahan', '2024-10-05', 'Be part of the Dussehra celebration with the symbolic burning of the Ravan effigy.'),
('Bihu Dance Festival', '2024-04-14', 'Experience the vibrant Bihu dance and cultural festivities during the Assamese New Year.'),
('Guru Purnima Satsang', '2024-07-23', 'Participate in a spiritual Satsang to honor and express gratitude on Guru Purnima.');

select* from Events;

```



```

CREATE TABLE Complaints (
    complaint_id INT PRIMARY KEY AUTO_INCREMENT,
    resident_id INT,
    description TEXT,
    date_filed DATE,
    status ENUM('Open', 'Closed'),
    FOREIGN KEY (resident_id) REFERENCES Residents(resident_id)
);

INSERT INTO Complaints (resident_id, description, date_filed, status)
VALUES
(1, 'Noise disturbance during meditation hours', '2024-01-08', 'Open'),
(2, 'Parking space dispute with neighbor', '2024-01-10', 'Closed'),
(3, 'Water leakage from ceiling in the bathroom', '2024-01-12', 'Open'),
(4, 'Power outage in the entire building', '2024-01-15', 'Open'),
(5, 'Gardening equipment missing from storage', '2024-01-18', 'Open'),
(6, 'Roof leak in common area', '2024-01-20', 'Open'),
(7, 'Elevator not working properly', '2024-01-22', 'Open'),
(8, 'Pest infestation in the apartment', '2024-01-25', 'Open'),
(9, 'Air conditioning unit malfunction', '2024-01-28', 'Open'),
(10, 'Appliance repair request', '2024-02-01', 'Open'),
(11, 'Security system glitch', '2024-02-05', 'Open'),
(12, 'Paint peeling off in hallway', '2024-02-08', 'Open'),
(13, 'Fire safety equipment maintenance needed', '2024-02-12', 'Open'),
(14, 'Common area cleanliness complaint', '2024-02-15', 'Open'),
(15, 'Parking lot pothole repair request', '2024-02-18', 'Open'),
(16, 'Landscaping improvements suggestion', '2024-02-22', 'Open'),
(17, 'Wi-Fi connectivity issues in common areas', '2024-02-25', 'Open'),
(18, 'Trash disposal system upgrade request', '2024-02-28', 'Open'),
(19, 'Fitness center equipment malfunction', '2024-03-03', 'Open'),
(20, 'Emergency lighting system check needed', '2024-03-07', 'Open');

select * from complaints;

CREATE TABLE Payments (

```

```
payment_id INT PRIMARY KEY AUTO_INCREMENT,  
resident_id INT,  
amount DECIMAL(10, 2),  
payment_date DATE,  
FOREIGN KEY (resident_id) REFERENCES Residents(resident_id)  
);
```

```
INSERT INTO Payments (resident_id, amount, payment_date)
```

```
VALUES
```

```
(1, 1000.00, '2024-01-05'),  
(2, 1500.00, '2024-01-10'),  
(3, 1200.00, '2024-01-15'),  
(4, 1800.00, '2024-01-20'),  
(5, 900.00, '2024-01-25'),  
(6, 2000.00, '2024-01-30'),  
(7, 1300.00, '2024-02-05'),  
(8, 1600.00, '2024-02-10'),  
(9, 1100.00, '2024-02-15'),  
(10, 1900.00, '2024-02-20'),  
(11, 1700.00, '2024-02-25'),  
(12, 800.00, '2024-03-01'),  
(13, 2200.00, '2024-03-06'),  
(14, 1000.00, '2024-03-11'),  
(15, 1500.00, '2024-03-16'),  
(16, 1800.00, '2024-03-21'),  
(17, 1200.00, '2024-03-26'),  
(18, 1900.00, '2024-03-31'),  
(19, 1100.00, '2024-04-05'),  
(20, 2000.00, '2024-04-10');
```

```
select * from payments;
```

```

CREATE TABLE Staff (
    staff_id INT PRIMARY KEY AUTO_INCREMENT,
    first_name VARCHAR(50) NOT NULL,
    last_name VARCHAR(50) NOT NULL,
    position VARCHAR(50) NOT NULL
);

INSERT INTO Staff (first_name, last_name, position)
VALUES
('Amit', 'Kumar', 'Maintenance Supervisor'),
('Deepika', 'Sharma', 'Security Guard'),
('Rajat', 'Patil', 'Event Coordinator'),
('Kavita', 'Singh', 'Housekeeping Manager'),
('Rahul', 'Gupta', 'Facilities Manager'),
('Neha', 'Verma', 'Customer Service Representative'),
('Ravi', 'Shinde', 'Accountant'),
('Aarti', 'Mehta', 'IT Administrator'),
('Vikas', 'Joshi', 'Groundskeeper'),
('Priya', 'Malik', 'Maintenance Technician'),
('Manoj', 'Nair', 'Security Supervisor'),
('Divya', 'Shah', 'Front Desk Officer'),
('Ankit', 'Gandhi', 'Event Planner'),
('Sarika', 'Pandey', 'Housekeeping Staff'),
('Rajesh', 'Yadav', 'Maintenance Electrician'),
('Meera', 'Rao', 'Administrative Assistant'),
('Kunal', 'Deshmukh', 'Security Officer'),
('Pooja', 'Iyer', 'Facilities Coordinator'),
('Varun', 'Chopra', 'IT Support Specialist'),
('Suman', 'Mishra', 'Housekeeping Supervisor');

select * from Staff;

```

Table Output:-

Apartment table:-

	apartment_id	building_name	unit_number	floor_number	total_rooms
▶	1	Saraswati Heights	101	1	2
	2	Ganesh Endave	102	1	3
	3	Krishna Towers	201	2	2
	4	Radha Residency	202	2	3
	5	Golden Gardens	G1	1	4
	6	Divine Homes	G2	1	3
	7	Skyline Nirvana	S101	10	2
	8	Celestial Towers	S102	10	3
	9	Maple Meadows	M1	5	2
	10	Eternal Greens	M2	5	3
	11	Lakeside Bliss	L101	7	2

Residents table:-

Result Grid		Filter Rows:		Edit:		Export/Import:		Wrap	
	resident_id	first_name	last_name	email	phone_number	apartment_id			
▶	1	John	Doe	john.doe@example.com	123-456-7890	1			
	2	Jane	Smith	jane.smith@example.com	987-654-3210	2			
	3	Alice	Johnson	alice.johnson@example.com	555-123-4567	3			
	4	Bob	Williams	bob.williams@example.com	222-333-4444	4			
	5	Eva	Davis	eva.davis@example.com	888-999-0000	5			
	6	David	Miller	david.miller@example.com	777-666-5555	6			
	7	Grace	Taylor	grace.taylor@example.com	444-555-6666	7			
	8	Tom	Anderson	tom.anderson@example.com	111-222-3333	8			
	9	Sophia	Brown	sophia.brown@example.com	999-888-7777	9			
	10	Michael	Jones	michael.jones@example.com	777-888-9999	10			
	11	Olivia	Wilson	olivia.wilson@example.com	555-444-3333	11			

Residents 6 x

Maintenance table:-

	maintenance_id	apartment_id	description	cost	date_requested	status
▶	1	1	Leaky faucet repair	50.00	2024-01-08	Pending
	2	2	Window pane replacement	75.00	2024-01-10	Completed
	3	3	Plumbing checkup	60.00	2024-01-12	Pending
	4	4	Electrical wiring inspection	80.00	2024-01-15	Completed
	5	5	Garden maintenance	40.00	2024-01-18	Pending
	6	6	Roof inspection	90.00	2024-01-20	Pending
	7	7	Elevator servicing	70.00	2024-01-22	Pending
	8	8	Pest control	55.00	2024-01-25	Pending
	9	9	HVAC system repair	65.00	2024-01-28	Pending
	10	10	Appliance maintenance	85.00	2024-02-01	Pending
	11	11	Security system check	75.00	2024-02-05	Pending

maintenance 8 ×

Events table:-

	event_id	event_name	event_date	description
▶	1	Diwali Celebrations	2024-10-25	Join us for a vibrant Diwali celebration with light...
	2	Holi Festival Extravaganza	2024-03-17	Celebrate the festival of colors with music, danc...
	3	Ganesh Chaturthi Puja	2024-09-02	Participate in the auspicious Ganesh Chaturthi p...
	4	Navratri Garba Night	2024-10-10	Get ready for a night filled with energetic Garba...
	5	Republic Day Cultural Program	2024-01-26	Enjoy patriotic performances and cultural showc...
	6	Eid-ul-Fitr Feast	2024-05-12	Join us for a grand feast to celebrate the joyou...
	7	Durga Puja Cultural Fair	2024-10-15	Experience the grandeur of Durga Puja with cul...
	8	Janmashtami Matki Phod	2024-08-12	Participate in the traditional Matki Phod celebrat...
	9	Independence Day Flag Hoisting	2024-08-15	Attend the flag hoisting ceremony and cultural ...
	10	Pongal Harvest Festival	2024-01-14	Celebrate the South Indian harvest festival wit...
	11	Karva Chauth Sargi Breakfast	2024-11-04	Join us for a special Sargi breakfast before the ...

Events 9 ×

Complaints table:-

	complaint_id	resident_id	description	date_filed	status
▶	1	1	Noise disturbance during meditation hours	2024-01-08	Open
	2	2	Parking space dispute with neighbor	2024-01-10	Closed
	3	3	Water leakage from ceiling in the bathroom	2024-01-12	Open
	4	4	Power outage in the entire building	2024-01-15	Open
	5	5	Gardening equipment missing from storage	2024-01-18	Open
	6	6	Roof leak in common area	2024-01-20	Open
	7	7	Elevator not working properly	2024-01-22	Open
	8	8	Pest infestation in the apartment	2024-01-25	Open
	9	9	Air conditioning unit malfunction	2024-01-28	Open
	10	10	Appliance repair request	2024-02-01	Open
	11	11	Security system glitch	2024-02-05	Open

complaints 10 ×

Payments table:-

	payment_id	resident_id	amount	payment_date
▶	1	1	1000.00	2024-01-05
	2	2	1500.00	2024-01-10
	3	3	1200.00	2024-01-15
	4	4	1800.00	2024-01-20
	5	5	900.00	2024-01-25
	6	6	2000.00	2024-01-30
	7	7	1300.00	2024-02-05
	8	8	1600.00	2024-02-10
	9	9	1100.00	2024-02-15
	10	10	1900.00	2024-02-20
	11	11	1700.00	2024-02-25

payments 11 ×

Staff table:-

	staff_id	first_name	last_name	position
▶	1	Amit	Kumar	Maintenance Supervisor
	2	Deepika	Sharma	Security Guard
	3	Rajat	Patil	Event Coordinator
	4	Kavita	Singh	Housekeeping Manager
	5	Rahul	Gupta	Facilities Manager
	6	Neha	Verma	Customer Service Representative
	7	Ravi	Shinde	Accountant
	8	Aarti	Mehta	IT Administrator
	9	Vikas	Joshi	Groundskeeper
	10	Priya	Malik	Maintenance Technician
	11	Manoj	Nair	Security Supervisor

Staff 12 ×

SUBQUERIES:-

Show Residents Who Have Outstanding Payments:-

```
select resident_id, first_name  
from Residents  
where resident_id IN (  
    select resident_id  
    from Payments  
    where status = 'Pending');
```

Output:-

	resident_id	first_name
▶	1	John
	2	Jane
	3	Alice
	4	Bob
	5	Eva
	6	David
	7	Grace
	8	Tom
	9	Sophia
	10	Michael

Calculate Total Payments Made by Each Resident:-

```
select resident_Id, (  
    select sum(amount)  
    from Payments  
    Where payments.resident_id = residents.resident_id  
) as totalpayments  
from Residents;
```


Output:-

	resident_Id	totalpayments
▶	1	1000.00
	2	1500.00
	3	1200.00
	4	1800.00
	5	900.00
	6	2000.00
	7	1300.00
	8	1600.00
	9	1100.00
	10	1900.00

Result 11 ×

Find the Total Number of Complaints for Each Resident:-

```
select resident_id, (  
    select COUNT(*)  
    from complaints  
    where complaints.resident_id = residents.resident_id) AS totalcomplaints  
From residents;
```

Output:-

	resident_id	totalcomplaints
▶	1	1
	2	1
	3	1
	4	1
	5	1
	6	1
	7	1
	8	1
	9	1
	10	1

Complaints and status:-

```
Select resident_id, description
from complaints
where status = 'closed'
and resident_id IN (
    SELECT resident_id
    from resident);
```

Output:-

	resident_id	description
▶	2	Parking space dispute with neighbor

Retrieve Staff Details for a Specific Department:-

```
select*From staff
where staff_id = (
    Select staff_id from staff
    where position = 'Accountant');
```

Output:-

	staff_id	first_name	last_name	position
▶	7	Ravi	Shinde	Accountant
✱	NULL	NULL	NULL	NULL

staff 14 ▼

JOINS:-

1:- Joining Apartment and Residents Tables:-

select *from apartments

INNER JOIN residents ON apartment.apartment_id = residents.apartment_id;

Output:-

	apartment_id	building_name	unit_number	floor_number	total_rooms	resident_id	first_name	last_name	email	phone_number	apartment_id
▶	1	Saraswati Heights	101	1	2	1	John	Doe	john.doe@example.com	123-456-7890	1
	2	Ganesh Endave	102	1	3	2	Jane	Smith	jane.smith@example.com	987-654-3210	2
	3	Krishna Towers	201	2	2	3	Alice	Johnson	alice.johnson@example.com	555-123-4567	3
	4	Radha Residency	202	2	3	4	Bob	Williams	bob.williams@example.com	222-333-4444	4
	5	Golden Gardens	G1	1	4	5	Eva	Davis	eva.davis@example.com	888-999-0000	5
	6	Divine Homes	G2	1	3	6	David	Miller	david.miller@example.com	777-666-5555	6
	7	Skyline Nirvana	S101	10	2	7	Grace	Taylor	grace.taylor@example.com	444-555-6666	7
	8	Celestial Towers	S102	10	3	8	Tom	Anderson	tom.anderson@example.com	111-222-3333	8
	9	Maple Meadows	M1	5	2	9	Sophia	Brown	sophia.brown@example.com	999-888-7777	9

Result 15 v

2:- Joining Maintenance and Staff Tables:-

select *from maintenance

INNER JOIN staff ON maintenance.staff_id = staff.Staff_id;

Output:-

	maintenance_id	apartment_id	description	cost	date_requested	status	staff_id	first_name	last_name	position
▶	1	1	Leaky faucet repair	50.00	2024-01-08	Pending	1	Amit	Kumar	Maintenance Supervisor
	2	2	Window pane replacement	75.00	2024-01-10	Completed	2	Deepika	Sharma	Security Guard
	3	3	Plumbing checkup	60.00	2024-01-12	Pending	3	Rajat	Patil	Event Coordinator
	4	4	Electrical wiring inspection	80.00	2024-01-15	Completed	4	Kavita	Singh	Housekeeping Manager
	5	5	Garden maintenance	40.00	2024-01-18	Pending	5	Rahul	Gupta	Facilities Manager
	6	6	Roof inspection	90.00	2024-01-20	Pending	6	Neha	Verma	Customer Service Representative
	7	7	Elevator servicing	70.00	2024-01-22	Pending	7	Ravi	Shinde	Accountant
	8	8	Pest control	55.00	2024-01-25	Pending	8	Aarti	Mehta	IT Administrator
	9	9	HVAC system repair	65.00	2024-01-28	Pending	9	Vikas	Joshi	Groundskeeper

Result 15 v

3:- Joining Events and Residents Tables:-

```
select *from events
```

```
INNER JOIN residents ON events.event_id = residents.Event_id;
```

Output:-

	event_id	event_name	event_date	description	resident_id	first_name	last_name	email	phone_number	apartment_id
▶	1	Diwali Celebrations	2024-10-25	Join us for a vibrant Diwali celebration with light...	1	John	Doe	john.doe@example.com	123-456-7890	1
	2	Holi Festival Extravaganza	2024-03-17	Celebrate the festival of colors with music, danc...	2	Jane	Smith	jane.smith@example.com	987-654-3210	2
	3	Ganesh Chaturthi Puja	2024-09-02	Participate in the auspicious Ganesh Chaturthi p...	3	Alice	Johnson	alice.johnson@example.com	555-123-4567	3
	4	Navratri Garba Night	2024-10-10	Get ready for a night filled with energetic Garba...	4	Bob	Williams	bob.williams@example.com	222-333-4444	4
	5	Republic Day Cultural Program	2024-01-26	Enjoy patriotic performances and cultural showc...	5	Eva	Davis	eva.davis@example.com	888-999-0000	5
	6	Eid-ul-Fitr Feast	2024-05-12	Join us for a grand feast to celebrate the joyou...	6	David	Miller	david.miller@example.com	777-666-5555	6
	7	Durga Puja Cultural Fair	2024-10-15	Experience the grandeur of Durga Puja with cul...	7	Grace	Taylor	grace.taylor@example.com	444-555-6666	7
	8	Janmashtami Matki Phod	2024-08-12	Participate in the traditional Matki Phod celebrat...	8	Tom	Anderson	tom.anderson@example.com	111-222-3333	8
	9	Independence Day Flag Hoisting	2024-08-15	Attend the flag hoisting ceremony and cultural ...	9	Sophia	Brown	sophia.brown@example.com	999-888-7777	9

4:- Joining Payments and Residents Tables:-

```
select *from payments
```

```
INNER JOIN residents ON payments.resident_id = residents.resident_id;
```

Output:-

	payment_id	resident_id	amount	payment_date	resident_id	first_name	last_name	email	phone_number	apartment_id
▶	1	1	1000.00	2024-01-05	1	John	Doe	john.doe@example.com	123-456-7890	1
	2	2	1500.00	2024-01-10	2	Jane	Smith	jane.smith@example.com	987-654-3210	2
	3	3	1200.00	2024-01-15	3	Alice	Johnson	alice.johnson@example.com	555-123-4567	3
	4	4	1800.00	2024-01-20	4	Bob	Williams	bob.williams@example.com	222-333-4444	4
	5	5	900.00	2024-01-25	5	Eva	Davis	eva.davis@example.com	888-999-0000	5
	6	6	2000.00	2024-01-30	6	David	Miller	david.miller@example.com	777-666-5555	6
	7	7	1300.00	2024-02-05	7	Grace	Taylor	grace.taylor@example.com	444-555-6666	7
	8	8	1600.00	2024-02-10	8	Tom	Anderson	tom.anderson@example.com	111-222-3333	8
	9	9	1100.00	2024-02-15	9	Sophia	Brown	sophia.brown@example.com	999-888-7777	9

5:- Joining Complaints and Residents Tables:-

```
select *
from complaints
INNER JOIN residents ON complaints.complaint_id = residents.resident_id;
```

Output:-

complaint_id	resident_id	description	date_filed	status	resident_id	first_name	last_name	email	phone_number	apartment_id
1	1	Noise disturbance during meditation hours	2024-01-08	Open	1	John	Doe	john.doe@example.com	123-456-7890	1
2	2	Parking space dispute with neighbor	2024-01-10	Closed	2	Jane	Smith	jane.smith@example.com	987-654-3210	2
3	3	Water leakage from ceiling in the bathroom	2024-01-12	Open	3	Alice	Johnson	alice.johnson@example.com	555-123-4567	3
4	4	Power outage in the entire building	2024-01-15	Open	4	Bob	Williams	bob.williams@example.com	222-333-4444	4
5	5	Gardening equipment missing from storage	2024-01-18	Open	5	Eva	Davis	eva.davis@example.com	888-999-0000	5
6	6	Roof leak in common area	2024-01-20	Open	6	David	Miller	david.miller@example.com	777-666-5555	6
7	7	Elevator not working properly	2024-01-22	Open	7	Grace	Taylor	grace.taylor@example.com	444-555-6666	7
8	8	Pest infestation in the apartment	2024-01-25	Open	8	Tom	Anderson	tom.anderson@example.com	111-222-3333	8
9	9	Air conditioning unit malfunction	2024-01-28	Open	9	Sophia	Brown	sophia.brown@example.com	999-888-7777	9

Conclusion:-

The Society Management System is a comprehensive solution for managing society affairs. The system provides essential features such as member registration, event management, fee management, complaint handling, visitor management, and notification management.

