

MEMBERS:

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PROJECT TOPIC:

Property Rental Management System

PROBLEM STATEMENT:

1. Delay in solving maintenance issues or any other complaints.
2. Data in the database is prone to privilege abuse, injection attacks, and malware threats.
3. Difficult to access and control the data due to the high number of properties.

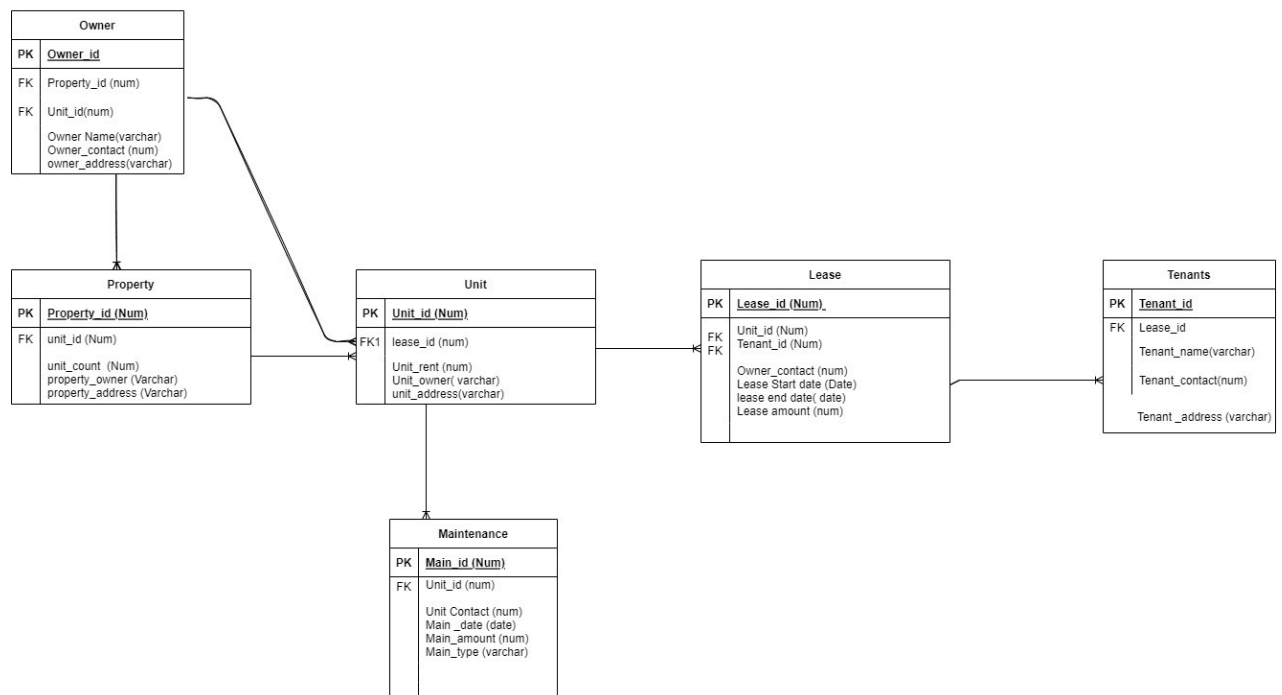
OBJECTIVES:

1. To efficiently manage the details of the Owners and their respective Tenants.
2. To create a well-organized management system for tracking maintenance issues regularly.
3. To provide a structured system of maintaining financial transaction-related matters.

PROPOSED SOLUTION:

1. A different entity will be made to look after the problems of the tenants in different property locations.
2. Monitoring of the database activity with the usage patterns will be done on regular bases.
3. User access rights and privileges will be managed and will not be given to the users or the property managers.
4. A well-designed property system will be created that will be storing all the data in one place and have full control over it making the data transparent and easy to find.

E-R DIAGRAM



ENTITIES & ATTRIBUTES

Property

ATTRIBUTES	DATATYPE	COMMENTS
property_id	NUMBER	PRIMARY KEY, AUTO GENERATED
Unit_Count	NUMBER	NOT NULL
Property_Owner	VARCHAR (20)	
Property_address	VARCHAR (20)	NOT NULL
Unit_id	NUMBER	FOREIGN KEY, NOT NULL

Unit

ATTRIBUTES	DATATYPE	COMMENTS
unit_id	NUMBER	PRIMARY KEY, AUTO GENERATED
Unit_Rent	NUMBER	NOT NULL
Unit_Owner	VARCHAR (20)	
Unit_address	VARCHAR (20)	NOT NULL
property_id	NUMBER	FOREIGN KEY, NOT NULL

Maintenance

ATTRIBUTES	DATATYPE	COMMENTS
main_id	NUMBER	PRIMARY KEY, AUTO GENERATED
Main_Amount	NUMBER	NOT NULL
Unit_id	NUMBER	FOREIGN KEY, NOT NULL
Unit_contact	VARCHAR (10)	NOT NULL
Main_Start_Date	DATE	NOT NULL
Main_End_Date	DATE	NOT NULL
Main_type	VARCHAR (100)	NOT NULL

Lease

ATTRIBUTES	DATATYPE	COMMENTS
Lease_id	NUMBER	PRIMARY KEY, AUTO GENERATED
Lease_Amount	NUMBER	NOT NULL
Unit_id	NUMBER	FOREIGN KEY, NOT NULL
Owner_contact	VARCHAR (20)	NOT NULL
Lease_Start_Date	DATE	NOT NULL
Lease_End_Date	DATE	NOT NULL
Tenant_id	NUMBER	FOREIGN KEY, NOT NULL

Tenant

ATTRIBUTES	DATATYPE	COMMENTS
Tenant_id	NUMBER	PRIMARY KEY, AUTO GENERATED
Tenant_Name	VARCHAR (20)	NOT NULL
Lease_id	NUMBER	FOREIGN KEY, NOT NULL
Tenant_contact	NUMBER	NOT NULL
Tenant_address	VARCHAR (20)	NOT NULL
Unit_id	NUMBER	FOREIGN KEY, NOT NULL

Owner

ATTRIBUTES	DATATYPE	COMMENTS
Owner_id	NUMBER	PRIMARY KEY, AUTO GENERATED
Lease_id	VARCHAR (20)	NOT NULL
property_id	NUMBER	FOREIGN KEY, NOT NULL
Unit_id	NUMBER	FOREIGN KEY, NOT NULL
Owner_name	VARCHAR (20)	NOT NULL
Owner_Contact	VARCHAR (20)	
Owner_address	VARCHAR (20)	NOT NULL