

Database Project - Real Estate Properties

Group ID: G4_10

Group Members :

- 1) Raj Saradava(202101248)
- 2) Jyot Patel (202101235)
- 3) Rushi Chaudhary (202101470)
- 4) Parth Movaliya (202101249)

Group Representative :

Name : Raj Saradava(202101248)

Contact No. : 9328282051

Objective -

This project aims to create a database system for real estate property exchange that can be used to store and manage property listings, buyer and seller information, and transactions.

The database should allow the property broker and customer to easily search for properties that match their criteria. Additionally, the database should track essential details such as property features, location, listing price, and commission fees.

Description -

Here we have implemented an online forum where buyers, sellers, and brokers/agents can exchange information about real estate properties quickly, effectively, and inexpensively.

Property sellers and customers require registering to the site before doing any activity. On registration, they get a unique ID. Let ID be unique across the buyers and sellers. A seller must have a valid Tax Identifier Number and RERA (Real Estate Regulatory Authority) verified property.

For sellers, we capture the following details of the seller through an online registration form: Contact Person (Name, Designation, Contact Number, email), Seller Type (Renting or Selling). Buyer registration captures Name, email, phone number, and address (optional).

Sellers typically carry out the following activation on the portal Add a property for sale or rent with their price and all. The following data describe a property: Property Type, Price, Proper Address, Owner, Area, Rent Or Sell, and Property description.

A property can have multiple tenants, but a tenant can only rent one property at a time. A landlord can own multiple properties, but a property can only have one landlord. The property will have information like price, owner details, area, parking, and various amenities.

1. Property Listings - This table will contain information about each property listing, including address, property type, Number of bedrooms and bathrooms, square footage, listing price, and commission fee.
2. Buyers - This table will store information about each potential buyer, including Name, contact information, (optional) budget, and property preferences.
3. Sellers - This table will contain information about property owners who want to sell their properties, including their Names, contact information, and property details.
4. Transactions - This table will record all transactions that have taken place, including the date, property information, buyer

information, and seller information. It will also track the commission fees earned by the broker.

5. Property Features - This table will list each property's available features, including amenities, appliances, and other essential details that may influence the buyer's decision.
6. Locations - This table will store information about the location of each property, including the city, state, and zip code.

Tentative list of Queries :

1. Retrieve a list of all Lands, apartments, and Bungalows for sale in a particular city.
2. Retrieve a list of all available Lands, apartments, and Bungalows for rent near a particular landmark.
3. Retrieve a list of all properties with their corresponding locations.
4. Retrieve a list of all properties' complimentary amenities (e.g., swimming pool, gym, parking space, WI-FI).
5. Retrieve a list of all properties with their corresponding owner or landlord.
6. Retrieve a list of all properties with their corresponding rental rates.
7. Retrieve a list of all properties with their related security deposit information.
8. Retrieve a list of all properties with their corresponding historical occupancy rates.
9. Retrieve a list of all properties that have been sold in the last year.
10. Retrieve a list of top 3 properties that have given the highest profit.