

National Institute of Technology, Warangal

Department of Computer Science Engineering



DBMS PROJECT

Real Estate Management System

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Problem Statement:

The Real Estate Management Project deals with the management of data related to real estate. It will organise, manage and analyse the data to streamline property management process and improve overall operational efficiency within the real estate industry.

It contains the data related to the properties details and availability, the agents assigned to different properties, the transaction details, ownership and owner's information, tenant information and lease agreement details.

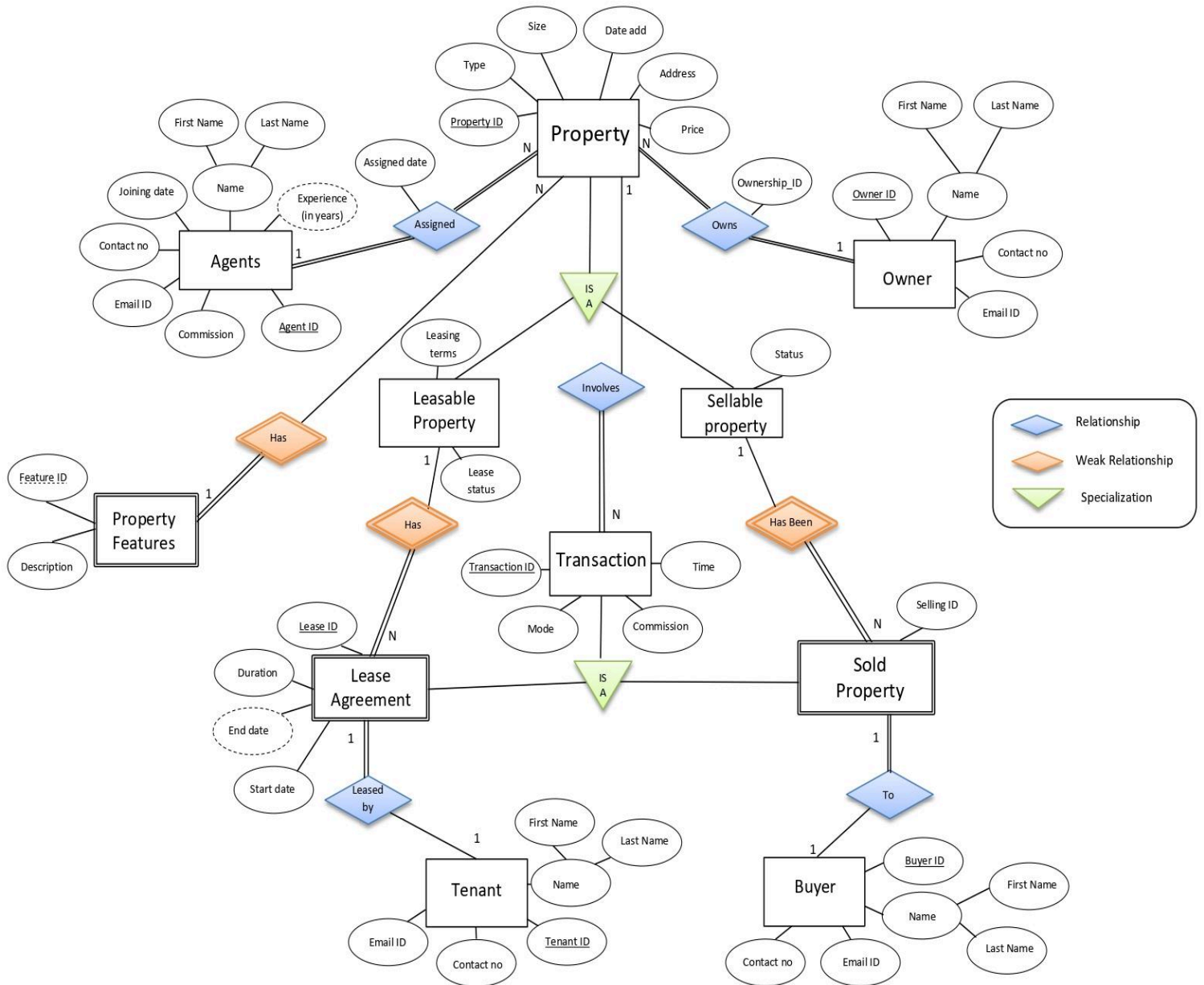
Contents:

1. ER Model Assumptions
 2. ER Diagram
 3. Tables
 4. Functional Dependencies and Primary Key
 5. Normalisation
 6. Relational Schema
 7. SQL Code
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1. ER MODEL ASSUMPTIONS

- a. Every property should be owned by an owner and a owner must have a property.
 - b. Every property should have only one owner.
 - c. Every lease agreement should be preceded by a transaction.
 - d. Every lease agreement must involve a property.
 - e. Every lease agreement should involve a tenant but every tenant need not have a lease agreement.
 - f. Every sold property must have a transaction.
 - g. Every property must have an agent and an agent can be assigned to multiple properties.
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2. ER MODEL



3. TABLES

I.PROPERTY

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
PROPERTY_ID	INT	PRIMARY KEY
TYPE	VARCHAR	NOT NULL
DATE_ADDED	DATE	NOT NULL
OWNER_ID	INT	NOT NULL,FOREIGN KEY
AGENT_ID	INT	NOT NULL,FOREIGN KEY
SIZE	NUMERIC	NOT NULL
PRICE	NUMERIC	NOT NULL
TRANSACTION_ID	INT	FOREIGN KEY

II.AGENTS

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
AGENT_ID	INT	PRIMARY KEY
FIRST_NAME	VARCHAR	NOT NULL
LAST_NAME	VARCHAR	
EMAIL	VARCHAR	NOT NULL
PHONE_NO.	NUMERIC	NOT NULL
COMMISION	NUMERIC	NOT NULL
JOINING_DATE	DATE	NOT NULL

III.OWNER

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
OWNER_ID	INT	PRIMARY KEY
FIRST_NAME	VARCHAR	NOT NULL
LAST_NAME	VARCHAR	NOT NULL
EMAIL	VARCHAR	NOT NULL
PHONE_NO.	NUMERIC	NOT NULL
PROPERTY_ID	NUMERIC	PRIMARY KEY,FOREIGN KEY

IV.OWNS

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
OWNERSHIP_ID	INT	NOT NULL
OWNER_ID	INT	NOT NULL,FOREIGN KEY
PROPERTY_ID	INT	PRIMARY KEY,FOREIGN KEY

V.PROPERTY FEATURES

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
FEATURE_CODE	INT	PRIMARY KEY
PROPERTY_ID	INT	PRIMARY KEY,FOREIGN KEY
DESCRIPTION	VARCHAR	NOT NULL

VI.LEASABLE PROPERTY

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
PROPERTY_ID	INT	PRIMARY KEY
LEASE_STATUS	BOOLEAN	NOT NULL
LEASING_TERMS	VARCHAR	NOT NULL

VII.LEASE AGREEMENT

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
LEASE_ID	INT	PRIMARY KEY
START_DATE	DATE	NOT NULL
DURATION	NUMBER	NOT NULL
PROPERTY_ID	INT	PRIMARY KEY,FOREIGN KEY
TRANSACTION_ID	INT	NOT NULL,FOREIGN KEY

VIII.SELLABLE PROPERTY

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
STATUS	BOOL	NOT NULL
PROPERTY_ID	INT	PRIMARY KEY,FOREIGN KEY

IX.SOLD PROPERTY

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
SELLING_ID	INT	PRIMARY KEY
TRANSACTION_ID	INT	NOT NULL,FOREIGN KEY
BUYER_ID	INT	NOT NULL,FOREIGN KEY
PROPERTY_ID	INT	PRIMARY KEY,FOREIGN KEY

X.TENANT

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
TENANT_ID	INT	PRIMARY KEY
FIRST_NAME	VARCHAR	NOT NULL
LAST_NAME	VARCHAR	NOT NULL
CONTACT_NO.	INT	NOT NULL
EMAIL_ID	VARCHAR	NOT NULL
LEASE_ID	INT	PRIMARY KEY,FOREIGN KEY

XI.BUYER

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
BUYER ID	INT	PRIMARY KEY
FIRST NAME	VARCHAR	NOT NULL
SECOND NAME	VARCHAR	NOT NULL
CONTACT NO.	INT	NOT NULL
EMAIL ID	VARCHAR	NOT NULL
SELLING ID	INT	FOREIGN KEY

XII.TRANSACTION

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
TRANSACTION ID	INT	PRIMARY KEY
MODE	VARCHAR	NOT NULL
TIME	TIMESTAMP	NOT NULL
COMMISSION	NUMERIC	
PROPERTY ID	INT	NOT NULL,FOREIGN KEY

XIII.ASSIGNED

ATTRIBUTE	DATA TYPE	CONSTRAINTS & CHARACTERISTICS
ASSIGN_DATE	DATE	NOT NULL
PROPERTY_ID	INT	PRIMARY KEY,FOREIGN KEY
AGENT_ID	INT	FOREIGN KEY

4.FUNCTIONAL DEPENDENCIES AND PRIMARY KEY

I. PROPERTY

Property_id ->

{Property_id,Type,Date_added,Owner_id,Agent_id,Size,Price}

Since it all depends on property_id.

Hence the primary key is Property_id.

II. AGENTS

Agent_id -> {Agents_id,First_name,Last_name,Email,Phone_no}

Since it all depends on Agent_id.

Hence the primary key is Agent_id.

III. OWNER

(Property_id,Agent_id) -> {Property_id,

Agent_id,Owner_id,First_name,Last_name,Email,Phone_no.}

Since it all depends on Agent_id and Property_id.

Hence the primary key is (Agent_id,Property_id).

IV. PROPERTY FEATURES

(Property_id,Feature_code) -> {Property_id,Feature_code,Description}

Since it all depends on (Property_id,Feature,Code).

Hence the primary key is (Property_id,Feature_Code).

V. LEASABLE PROPERTY

Property_id -> {Property_id, Lease_status, Leasing_terms}

Since it all depends on Property_id.

Hence the primary key is Property_id.

VI. LEASE AGREEMENT

(Lease_id, Property_id) ->

{Lease_id, Start_date, Duration, Property_id, Transaction_id}

Since it all depends on (Lease_id, Property_id).

Hence the primary key is (Lease_id, Property_id).

VII. SELLABLE PROPERTY

Property_id -> {Property_id, Status}

Since it all depends on Property_id.

Hence the primary key is Property_id.

VIII. SOLD PROPERTY

(Selling_id, Property_id) ->

{Selling_id, Transaction_id, Buyer_id, Property_id}

Since it all depends on (Selling_id, Property_id).

Hence the primary key is (Selling_id, Property_id).

IX. TENANT

Tenant_id -> {Tenant_id, First_name, Second_name, Contact_no.,

Email_id, Lease_id}

Since it all depends on Tenant_id.

Hence the primary key is Tenant_id.

X. BUYER

Buyer_id ->

{Buyer_id, First_name, Second_name, Contact_no., Email_id, Selling_id}

Since it all depends on Buyer_id.

Hence the primary key is Buyer_id.

XI. TRANSACTION

(Transaction_id, Property_id) ->

{Transaction_id, Mode, Time, Commision, Property_id}

Since it all depends on (Transaction_id, Property_id).

Hence the primary key is (Transaction_id, Property_id).

5.NORMALISATION

I. PROPERTY

Primary key:Property_id

All attributes depend on the property_id, hence the table is in 2NF.

All attributes depend directly on property_id, hence the table is in 3NF.

All determinants(Property_id) are candidate keys,hence the table is in BCNF.

II. AGENTS

Primary key:Agent_id

All attributes depend on the Agent_id, hence the table is in 2NF.

All attributes depend directly on Agent_id, hence the table is in 3NF.

All determinants(Agent_id) are candidate keys,hence the table is in BCNF.

III. OWNER

Primary key:(Property_id,Agent_id)

All attributes depend on the (Property_id,agent_id), hence the table is in 2NF.

All attributes depend directly on (Property_id,agent_id), hence the table is in 3NF.

All determinants(Property_id,agent_id) are candidate keys,hence the table is in BCNF.

IV. PROPERTY FEATURES

Primary key:(Property_id,Feature_code)

All attributes depend on the (Property_id,Feature_code), hence the table is in 2NF.

All attributes depend directly on (Property_id,Feature_code), hence the table is in 3NF.

All determinants(Property_id,Feature_code) are candidate keys,hence the table is in BCNF.

V. LEASABLE PROPERTY

Primary key:Property_id

All attributes depend on the Property_id, hence the table is in 2NF.

All attributes depend directly on Property_id, hence the table is in 3NF.

All determinants Property_id are candidate keys,hence the table is in BCNF.

VI. LEASE AGREEMENT

Primary key:(Property_id,Lease_id)

All attributes depend on the (Property_id,Lease_id), hence the table is in 2NF.

All attributes depend directly on (Property_id,Lease_id), hence the table is in 3NF.

All determinants(Property_id,Lease_id) are candidate keys,hence the table is in BCNF.

VII. SELLABLE PROPERTY

Primary key:Property_id

All attributes depend on the Property_id, hence the table is in 2NF.

All attributes depend directly on Property_id, hence the table is in 3NF.

All determinants Property_id are candidate keys,hence the table is in BCNF.

VIII. SOLD PROPERTY

Primary key:(Property_id,Selling_id)

All attributes depend on the (Property_id,Selling_id), hence the table is in 2NF.

All attributes depend directly on (Property_id,Selling_id), hence the table is in 3NF.

All determinants(Property_id,Selling_id) are candidate keys,hence the table is in BCNF.

IX. TENANT

Primary key: Tenant_id

All attributes depend on the Tenant_id, hence the table is in 2NF.

All attributes depend directly on Tenant_id, hence the table is in 3NF.

All determinants Tenant_id are candidate keys, hence the table is in BCNF.

X. BUYER

Primary key: Buyer_id

All attributes depend on the Buyer_id, hence the table is in 2NF.

All attributes depend directly on Buyer_id, hence the table is in 3NF.

All determinants Buyer_id are candidate keys, hence the table is in BCNF.

XI. TRANSACTION

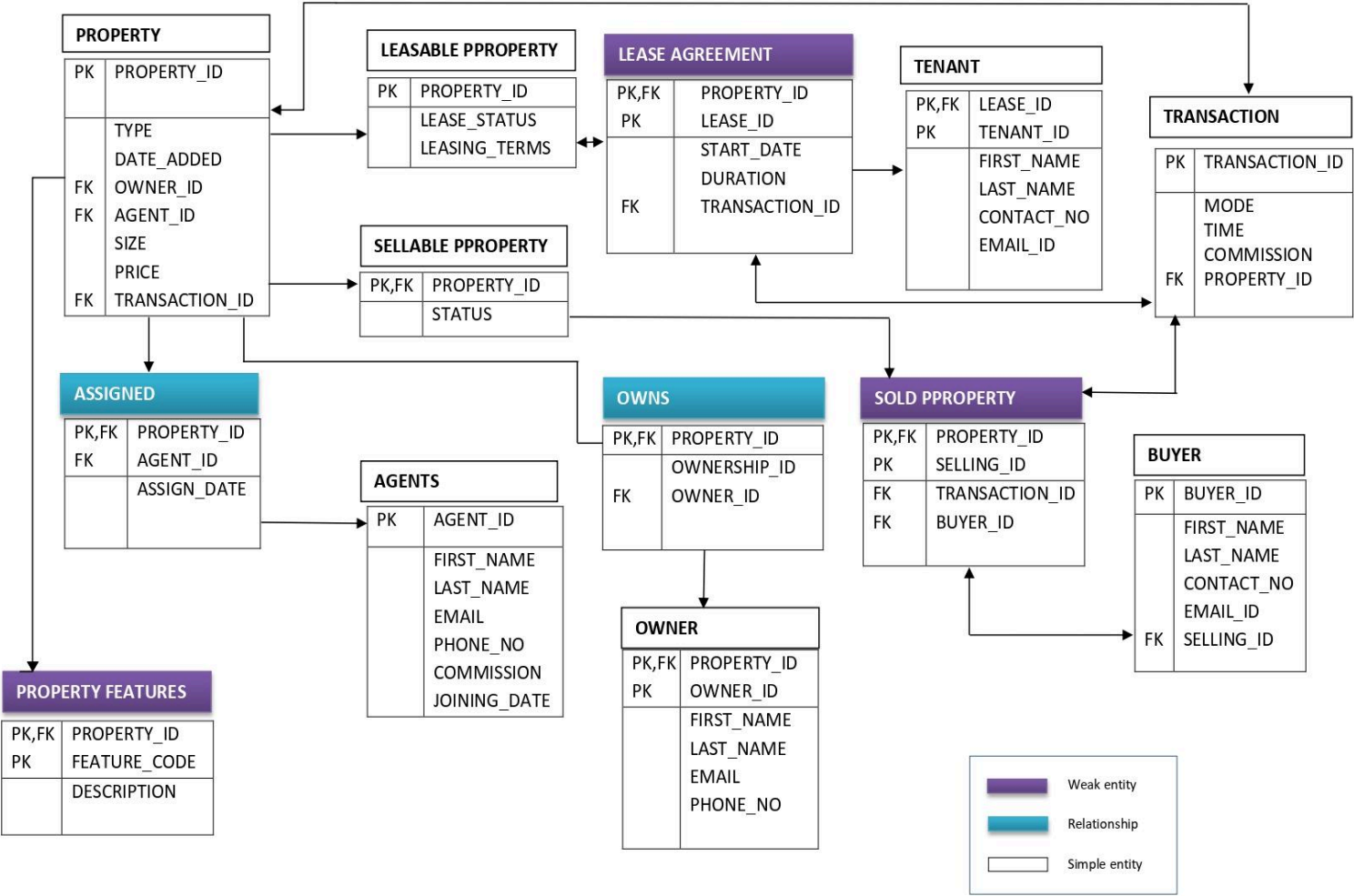
Primary key: (Transaction_id, Property_id)

All attributes depend on the (Transaction_id, Property_id), hence the table is in 2NF.

All attributes depend directly on (Transaction_id, Property_id), hence the table is in 3NF.

All determinants (Transaction_id, Property_id) are candidate keys, hence the table is in BCNF.

6.RELATIONAL SCHEMA



7.SQL CODE

CREATING TABLES

```
CREATE TABLE PROPERTY (  
    PROPERTY_ID INT PRIMARY KEY,  
    TYPE VARCHAR(250) NOT NULL,  
    DATE_ADDED DATE NOT NULL,  
    OWNER_ID INT NOT NULL,  
    AGENT_ID INT NOT NULL,  
    SIZE NUMERIC NOT NULL,  
    PRICE NUMERIC NOT NULL,  
    TRANSACTION_ID INT,  
    FOREIGN KEY (TRANSACTION_ID) REFERENCES  
TRANSACTION(TRANSACTION_ID),  
    FOREIGN KEY (OWNER_ID) REFERENCES OWNER(OWNER_ID),  
    FOREIGN KEY (AGENT_ID) REFERENCES AGENTS(AGENT_ID)  
);
```

```
CREATE TABLE AGENTS (  
    AGENT_ID INT PRIMARY KEY,  
    FIRST_NAME VARCHAR(50) NOT NULL,  
    LAST_NAME VARCHAR(50),  
    EMAIL VARCHAR(70) NOT NULL,  
    PHONE_NO NUMERIC NOT NULL,  
    COMMISSION NUMERIC NOT NULL,  
    JOINING_DATE DATE NOT NULL  
);
```

```
CREATE TABLE OWNER (  
    OWNER_ID INT PRIMARY KEY,  
    FIRST_NAME VARCHAR(50),  
    LAST_NAME VARCHAR(50),  
    EMAIL VARCHAR(70),  
    PHONE_NO NUMERIC NOT NULL,  
    PROPERTY_ID INT,
```

```
    FOREIGN KEY (PROPERTY_ID) REFERENCES  
PROPERTY(PROPERTY_ID)  
);
```

```
CREATE TABLE OWNS (  
    OWNERSHIP_ID INT PRIMARY KEY,  
    OWNER_ID INT NOT NULL,  
    PROPERTY_ID INT,  
    FOREIGN KEY (OWNER_ID) REFERENCES OWNER(OWNER_ID),  
    FOREIGN KEY (PROPERTY_ID) REFERENCES  
PROPERTY(PROPERTY_ID)  
);
```

```
CREATE TABLE PROPERTY_FEATURES (  
    FEATURE_CODE INT PRIMARY KEY,  
    PROPERTY_ID INT,  
    DESCRIPTION VARCHAR(500) NOT NULL,  
    FOREIGN KEY (PROPERTY_ID) REFERENCES  
PROPERTY(PROPERTY_ID)  
);
```

```
CREATE TABLE LEASABLE_PROPERTY (  
    PROPERTY_ID INT PRIMARY KEY,  
    LEASE_STATUS BOOLEAN NOT NULL,  
    LEASING_TERMS VARCHAR(500) NOT NULL  
);
```

```
CREATE TABLE LEASE_AGREEMENT (  
    LEASE_ID INT PRIMARY KEY,  
    START_DATE DATE NOT NULL,  
    DURATION NUMERIC NOT NULL,  
    PROPERTY_ID INT,  
    TRANSACTION_ID INT NOT NULL,  
    FOREIGN KEY (PROPERTY_ID) REFERENCES  
PROPERTY(PROPERTY_ID),  
    FOREIGN KEY (TRANSACTION_ID) REFERENCES  
TRANSACTION(TRANSACTION_ID)  
);
```

```
CREATE TABLE SELLABLE_PROPERTY (  

```

```
PROPERTY_ID INT PRIMARY KEY,  
STATUS BOOLEAN NOT NULL,  
FOREIGN KEY (PROPERTY_ID) REFERENCES  
PROPERTY(PROPERTY_ID)  
);
```

```
CREATE TABLE SOLD_PROPERTY (  
    SELLING_ID INT PRIMARY KEY,  
    TRANSACTION_ID INT NOT NULL,  
    BUYER_ID INT NOT NULL,  
    PROPERTY_ID INT NOT NULL,  
    FOREIGN KEY (TRANSACTION_ID) REFERENCES  
TRANSACTION(TRANSACTION_ID),  
    FOREIGN KEY (BUYER_ID) REFERENCES BUYER(BUYER_ID),  
    FOREIGN KEY (PROPERTY_ID) REFERENCES  
PROPERTY(PROPERTY_ID)  
);
```

```
CREATE TABLE TENANT (  
    TENANT_ID INT PRIMARY KEY,  
    FIRST_NAME VARCHAR(50) NOT NULL,  
    SECOND_NAME VARCHAR(50) NOT NULL,  
    CONTACT_NO NUMERIC NOT NULL,  
    EMAIL_ID VARCHAR(70) NOT NULL,  
    LEASE_ID INT,  
    FOREIGN KEY (LEASE_ID) REFERENCES  
LEASE_AGREEMENT(LEASE_ID)  
);
```

```
CREATE TABLE BUYER (  
    BUYER_ID INT PRIMARY KEY,  
    FIRST_NAME VARCHAR(50) NOT NULL,  
    SECOND_NAME VARCHAR(50) NOT NULL,  
    CONTACT_NO NUMERIC NOT NULL,  
    EMAIL_ID VARCHAR(70) NOT NULL,  
    SELLING_ID INT,  
    FOREIGN KEY (SELLING_ID) REFERENCES  
SOLD_PROPERTY(SELLING_ID)  
);
```



```
CREATE TABLE TRANSACTION (  
    TRANSACTION_ID INT PRIMARY KEY,  
    MODE VARCHAR(50) NOT NULL,  
    TIME TIMESTAMP NOT NULL,  
    COMMISSION NUMERIC,  
    PROPERTY_ID INT,  
    FOREIGN KEY (PROPERTY_ID) REFERENCES  
    PROPERTY(PROPERTY_ID)  
);
```

INSERTING VALUES

-- Inserting sample data into AGENTS table

```
INSERT INTO AGENTS (AGENT_ID, FIRST_NAME, LAST_NAME, EMAIL,  
PHONE_NO, COMMISSION, JOINING_DATE)  
VALUES
```

```
(1, 'Ravi', 'Kumar', 'ravi.kumar@gmail.com', 9123456789, 0.05,  
'2023-01-01'),  
(2, 'Priya', 'Sharma', 'priya.sharma@gmail.com', 9987654321, 0.06,  
'2023-02-01'),  
(3, 'Amit', 'Singh', 'amit.singh@gmail.com', 9555555555, 0.07,  
'2023-03-01'),  
(4, 'Anjali', 'Patel', 'anjali.patel@gmail.com', 9333333333, 0.08,  
'2023-04-01'),  
(5, 'Sandeep', 'Gupta', 'sandeep.gupta@gmail.com', 9111111111, 0.09,  
'2023-05-01'),  
(6, 'Divya', 'Shah', 'divya.shah@gmail.com', 9222222222, 0.1,  
'2023-06-01'),  
(7, 'Vikram', 'Joshi', 'vikram.joshi@gmail.com', 9444444444, 0.11,  
'2023-07-01'),  
(8, 'Neha', 'Verma', 'neha.verma@gmail.com', 9666666666, 0.12,  
'2023-08-01'),  
(9, 'Rahul', 'Mishra', 'rahul.mishra@gmail.com', 9777777777, 0.13,  
'2023-09-01'),  
(10, 'Kavita', 'Reddy', 'kavita.reddy@gmail.com', 9888888888, 0.14,  
'2023-10-01');
```

-- Inserting sample data into OWNER table

```
INSERT INTO OWNER (OWNER_ID, FIRST_NAME, LAST_NAME, EMAIL,  
PHONE_NO, PROPERTY_ID)
```

VALUES

```
(1, 'Priya', 'Sharma', 'priya.sharma@gmail.com', 9987654321, 1),  
(2, 'Amit', 'Singh', 'amit.singh@gmail.com', 9555555555, 2),  
(3, 'Vikram', 'Joshi', 'vikram.joshi@gmail.com', 9444444444, 3),  
(4, 'Divya', 'Shah', 'divya.shah@gmail.com', 9222222222, 4),  
(5, 'Neha', 'Verma', 'neha.verma@gmail.com', 9666666666, 5),  
(6, 'Ravi', 'Kumar', 'ravi.kumar@gmail.com', 9123456789, 6),  
(7, 'Anjali', 'Patel', 'anjali.patel@gmail.com', 9333333333, 7),  
(8, 'Sandeep', 'Gupta', 'sandeep.gupta@gmail.com', 9111111111, 8);
```

-- Inserting sample data into PROPERTY table

```
INSERT INTO PROPERTY (PROPERTY_ID, TYPE, DATE_ADDED,  
OWNER_ID, AGENT_ID, SIZE, PRICE, TRANSACTION_ID)
```

VALUES

```
(1, 'House', '2023-02-01', 1, 1, 2000, 500000, 1),  
(2, 'Apartment', '2023-03-15', 2, 2, 1200, 300000, NULL),  
(3, 'Condo', '2023-04-20', 3, 3, 1500, 400000, NULL),  
(4, 'Villa', '2023-05-25', 4, 4, 2500, 700000, NULL),  
(5, 'Townhouse', '2023-06-30', 5, 5, 1800, 450000, NULL),  
(6, 'Duplex', '2023-07-05', 6, 6, 2200, 550000, NULL),  
(7, 'Penthouse', '2023-08-10', 7, 7, 2800, 850000, NULL),  
(8, 'Bungalow', '2023-09-15', 8, 8, 1900, 400000, NULL),  
(9, 'Cottage', '2023-10-20', 9, 9, 1700, 380000, NULL),  
(10, 'Mansion', '2023-11-25', 10, 10, 3000, 1000000, NULL);
```

-- Inserting sample data into PROPERTY_FEATURES table

```
INSERT INTO PROPERTY_FEATURES (FEATURE_CODE, PROPERTY_ID,  
DESCRIPTION)
```

VALUES

```
(1, 1, 'This house features a spacious swimming pool and garden area,  
perfect for relaxation and entertainment'),  
(2, 1, 'The garden is beautifully landscaped with various flowers and trees,  
creating a serene environment'),  
(3, 2, 'The apartment includes a cozy balcony offering scenic views of the  
city skyline'),  
(4, 3, 'This condo comes with a designated parking space for residents'),
```

(5, 3, 'Residents of this condo building have access to a fully-equipped gymnasium');

-- Inserting sample data into OWNS table

```
INSERT INTO OWNS (OWNERSHIP_ID, OWNER_ID, PROPERTY_ID)
VALUES
  (1, 1, 1),
  (2, 2, 2),
  (3, 3, 3),
  (4, 4, 4),
  (5, 5, 5),
  (6, 6, 6),
  (7, 7, 7),
  (8, 8, 8);
```

-- Inserting sample data into LEASABLE_PROPERTY table

```
INSERT INTO LEASABLE_PROPERTY (PROPERTY_ID, LEASE_STATUS,
LEASING_TERMS)
VALUES
  (1, true, 'Monthly rent of ₹25,000, security deposit of ₹50,000 required'),
  (2, true, 'Monthly rent of ₹15,000, utilities included');
```

-- Inserting sample data into SELLABLE_PROPERTY table

```
INSERT INTO SELLABLE_PROPERTY (PROPERTY_ID, STATUS)
VALUES
  (3, false);
```

-- Inserting sample data into LEASE_AGREEMENT table

```
INSERT INTO LEASE_AGREEMENT (LEASE_ID, START_DATE,
DURATION, PROPERTY_ID, TRANSACTION_ID)
VALUES
  (1, '2023-01-15', 12, 1, 1),
  (2, '2023-02-20', 6, 2, NULL),
  (3, '2023-03-25', 9, 3, NULL),
  (4, '2023-04-30', 12, 4, NULL),
  (5, '2023-05-05', 24, 5, NULL);
```

-- Inserting sample data into SOLD_PROPERTY table

```
INSERT INTO SOLD_PROPERTY (SELLING_ID, TRANSACTION_ID,
BUYER_ID, PROPERTY_ID)
```

VALUES

(1, 1, 1, 1),
(2, 2, 2, 2),
(3, 3, 3, 3),
(4, 4, 4, 4),
(5, 5, 5, 5);

-- Inserting sample data into TENANT table

INSERT INTO TENANT (TENANT_ID, FIRST_NAME, SECOND_NAME,
CONTACT_NO, EMAIL_ID, LEASE_ID)

VALUES

(1, 'Amit', 'Gupta', 9988776655, 'amit.gupta@gmail.com', 1),
(2, 'Neha', 'Sharma', 9988776655, 'neha.sharma@gmail.com', 2),
(3, 'Ravi', 'Verma', 9988776655, 'ravi.verma@gmail.com', 3),
(4, 'Priya', 'Singh', 9988776655, 'priya.singh@gmail.com', 4),
(5, 'Anjali', 'Kumar', 9988776655, 'anjali.kumar@gmail.com', 5);

-- Inserting sample data into BUYER table

INSERT INTO BUYER (BUYER_ID, FIRST_NAME, SECOND_NAME,
CONTACT_NO, EMAIL_ID, SELLING_ID)

VALUES

(1, 'Rahul', 'Mishra', 9988776655, 'rahul.mishra@gmail.com', 1),
(2, 'Kavita', 'Reddy', 9988776655, 'kavita.reddy@gmail.com', 2),
(3, 'Arun', 'Jain', 9988776655, 'arun.jain@gmail.com', 3),
(4, 'Meena', 'Sharma', 9988776655, 'meena.sharma@gmail.com', 4),
(5, 'Suresh', 'Kumar', 9988776655, 'suresh.kumar@gmail.com', 5);

-- Inserting sample data into TRANSACTION table

INSERT INTO TRANSACTION (TRANSACTION_ID, MODE, TIME,
COMMISSION, PROPERTY_ID)

VALUES

(1, 'Sale', '2023-01-15 10:00:00', 0.05, 1),
(2, 'Sale', '2023-02-20 11:30:00', 0.06, 2),
(3, 'Sale', '2023-03-25 09:45:00', 0.07, 3),
(4, 'Sale', '2023-04-30 13:15:00', 0.08, 4),
(5, 'Sale', '2023-05-05 14:00:00', 0.09, 5);