



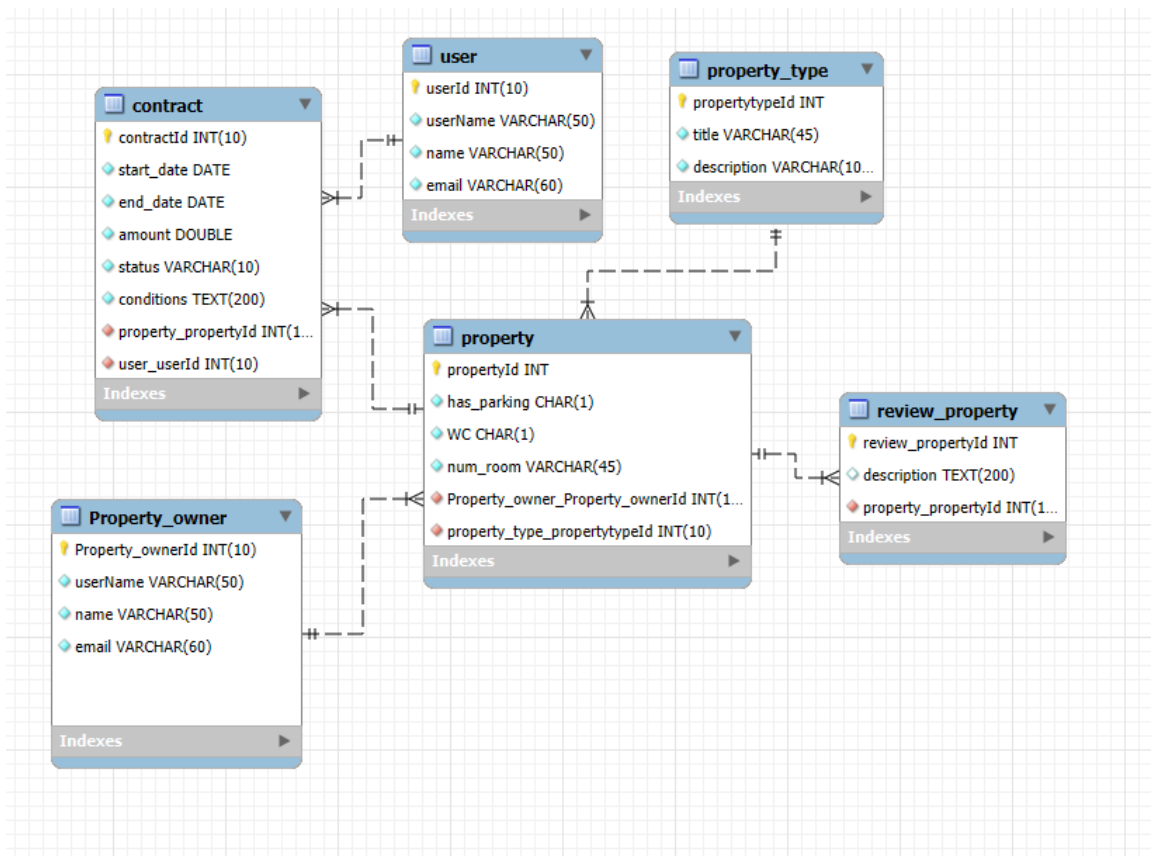
DATABASE OF REAL ESTATES

Diagrams and Script

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Database Diagram – Real estate



Database Schema Constraints

Table: User

Field	Type	Constraints
Userid	Int (10)	Primary Key, Auto_Increment
Username	Varchar (50)	Not Null, Unique
Name	Varchar (50)	Not Null
Email	Varchar (60)	Not Null, Unique

Table: Contract

Field	Type	Constraints
Contractid	Int (10)	Primary Key, Auto_Increment
Start_Date	Date	Not Null
End_Date	Date	Not Null
Amount	Double	Not Null, Default 0
Status	Varchar (10)	Not Null
Property_Propertyid	Int (10)	Fk_Contract_Property1 (Propertyid)
User_Userid	Int (10)	Fk_Contract_User1 (Userid)

Table: Property_Type

Field	Type	Constraints
Propertytypeid	Int (10)	Primary Key, Auto_Increment
Title	Varchar (45)	Not Null
Description	Varchar (100)	Not Null

Table: Property_Owner

Field	Type	Constraints
Property_Ownerid	Int (10)	Primary Key, Auto_Increment
Username	Varchar (50)	Not Null, Unique
Name	Varchar (50)	Not Null
Email	Varchar (60)	Not Null, Unique

Table: Property

Field	Type	Constraints
Propertyid	Int (10)	Primary Key, Auto_Increment
Has_Parking	Char (1)	Not Null
Wc	Char (1)	Not Null
Num_Room	Int (3)	Not Null, Default 0
Property_Owner_Property_Ownerid	Int (10)	Fk_Property_Property_Owner (Property_Ownerid)
Property_Type_Propertytypeid	Int (10)	Fk_Property_Property_Type (Propertytypeid)

Table: Review_Property

Field	Type	Constraints
Review_Propertyid	Int (10)	Primary Key, Auto_Increment
Description	Text (200)	Not Null
Property_Propertyid	Int (10)	Fk_Review_Property_Property (Propertyid)

Scrip DDL and DML

```
create database real_estate;
```

```
USE real_estate ;
```

```
CREATE TABLE user (  
    userId INT(10) NOT NULL AUTO_INCREMENT,  
    userName VARCHAR(50) NOT NULL UNIQUE,  
    name VARCHAR(50) NOT NULL,  
    email VARCHAR(60) NOT NULL UNIQUE,  
    PRIMARY KEY (userId) );
```

```
INSERT INTO user VALUES  
(1, 'halsaedi', 'Hussam Alsaedi', 'halsaedi@example.com'),  
(2, 'aAlsaedi', 'Ahmed Alsaedi', 'aAlsaedi@example.com');
```

```
UPDATE user set userName = 'aalsaedi' WHERE userId= 2;  
DELETE FROM user WHERE userId = 1;
```

```
CREATE TABLE Property_owner (  
    Property_ownerId INT(10) NOT NULL AUTO_INCREMENT,  
    userName VARCHAR(50) NOT NULL UNIQUE,  
    name VARCHAR(50) NOT NULL,  
    email VARCHAR(60) NOT NULL UNIQUE,  
    PRIMARY KEY (Property_ownerId)  
);
```

```
INSERT INTO Property_owner VALUES  
(1, 'aahedalhrbi', 'Fahed Alhrbi', 'aahedalhrbi@example.com'),  
(2, 'SAlhrbi', 'Salam Alhrbi', 'SAlhrbi@example.com');
```

```
UPDATE Property_owner set userName = 'falhrbi' WHERE  
Property_ownerId= 1;  
DELETE FROM Property_owner WHERE Property_ownerId = 2;
```

```
CREATE TABLE property_type (  
    propertytypeId INT (10) AUTO_INCREMENT,  
    title VARCHAR(45) NOT NULL,  
    description VARCHAR(100) NOT NULL,  
    PRIMARY KEY (propertytypeId));
```

```
INSERT INTO property_type VALUES  
(1, 'Apartment', 'Modern residential apartment'),  
(2, 'Villa', 'Luxury villa with a garden');
```

```
UPDATE property_type set title = 'Villa' WHERE propertytypeId= 1;  
DELETE FROM property_type WHERE propertytypeId = 2;
```

```
CREATE TABLE property (  
    propertyId INT(10) AUTO_INCREMENT,  
    has_parking CHAR(1) NOT NULL,
```

```

WC CHAR(1) NOT NULL,
num_room VARCHAR(45) NOT NULL DEFAULT 0,
Property_owner_Property_ownerId INT(10) NOT NULL,
property_type_propertytypeId INT(10) NOT NULL,
PRIMARY KEY (propertyId),

CONSTRAINT fk_property_Property_owner
    FOREIGN KEY (Property_owner_Property_ownerId)
    REFERENCES Property_owner (Property_ownerId),

CONSTRAINT fk_property_property_type
    FOREIGN KEY (property_type_propertytypeId)
    REFERENCES property_type (propertytypeId)
);

INSERT INTO property VALUES
(1, 'Y', 'Y', '3', 1, 1),
(2, 'N', 'Y', '5', 2, 2);

CREATE TABLE contract (
    contractId INT(10) AUTO_INCREMENT,
    start_date DATE NOT NULL,
    end_date DATE NOT NULL,
    amount DOUBLE NOT NULL,
    status VARCHAR(10) NOT NULL DEFAULT 0,
    conditions TEXT(200) NOT NULL,
    property_propertyId INT(10) NOT NULL,
    user_userId INT(10) NOT NULL,
    PRIMARY KEY (contractId),

CONSTRAINT fk_contract_property
    FOREIGN KEY (property_propertyId)
    REFERENCES property (propertyId),

CONSTRAINT fk_contract_user
    FOREIGN KEY (user_userId)
    REFERENCES user (userId)
);

INSERT INTO contract VALUES
(1, '2024-01-01', '2024-12-31', 15000.00, 'Active', 'Maintain
cleanliness at all times', 1, 1),
(2, '2024-06-01', '2025-05-31', 25000.00, 'Active', 'No structural
changes allowed', 2, 2);

CREATE TABLE review_property (
    review_propertyId INT NOT NULL AUTO_INCREMENT,
    description TEXT(200) NULL,
    property_propertyId INT(10) NOT NULL,
    PRIMARY KEY (review_propertyId),

```



```
CONSTRAINT fk_review_property_property1
  FOREIGN KEY (property_propertyId)
  REFERENCES property (propertyId)
);
```

```
INSERT INTO review_property VALUES
(1, 'Comfortable apartment suitable for families', 1),
(2, 'Amazing villa with a beautiful view', 2);
```