

Course: Database Management System

# Real Estate Broker System

Bastawala Asad Mohd. Idris	(202012037)
Maruf Memon	(202012038)
Kashish Rajeshbhai Shah	(202012039)
Sanghvi Vruddhi Pareshbhai	(202012040)
Nirmit Gupta	(202018019)
K Prathyusha	(202018020)

```
CREATE schema realEstate;
```

```
SET search_path to realEstate;
```

```
CREATE TABLE Person
```

```
(
```

```
    User_Id serial primary key,
```

```
    Name varchar(50) NOT NULL,
```

```
    Address varchar(100) NOT NULL ,
```

```
    DOB date NOT NULL,
```

```
    Gender char(1) NOT NULL check(gender in('M','F','O'))
```

```
);
```

```
CREATE TABLE person_contact
```

```
(
```

```
    user_id serial references person(user_id),
```

```
    contact_no numeric(10) ,
```

```
    primary key(user_id,contact_no)
```

```
);
```

```
CREATE TABLE person_email
```

```
(
```

```
    user_id serial references person(user_id),
```

```
    email varchar(25),
```

```
    primary key(user_id,email)
```

```
);
```

```
CREATE TABLE Bank
```

```
(
```

```
    Bank_name varchar(20) NOT NULL,
```

```
    Bank_code numeric(10) PRIMARY KEY
```

```
);
```

CREATE TABLE Branch

```
(
    Branch_Name varchar(20) NOT NULL,
    Branch_ID numeric(5) PRIMARY KEY ,
    Address varchar(100) NOT NULL,
    Bank_code numeric(10) NOT NULL references bank(Bank_code) ON DELETE
    RESTRICT ON UPDATE CASCADE
);
```

CREATE type loan\_t as enum('tier1','tier2','tier3');

CREATE TABLE loan

```
(
    loan_id serial Primary key,
    loan_amt real not null, loan_type
    loan_t DEFAULT 'tier1', init_date
    date not null,
    repay_date date not null,
    branch_id numeric(5) references branch(branch_id) ON DELETE RESTRICT ON
    UPDATE CASCADE
);
```

CREATE TABLE buyer

```
(
    loan_id serial references loan(loan_id) ,
    User_Id serial PRIMARY KEY ,
    FOREIGN KEY (User_Id) REFERENCES Person(User_Id) ON DELETE
    CASCADE
);
```

CREATE TABLE City

```
(  
    City_Name varchar(20) NOT NULL,  
    City_ID numeric(5) PRIMARY KEY  
);
```

CREATE TABLE Seller

```
(  
    User_Id serial PRIMARY KEY ,  
    FOREIGN KEY (User_Id) REFERENCES Person(User_Id) ON DELETE  
CASCADE  
);
```

CREATE TABLE Contractor

```
(  
    Price_quote float(8) NOT NULL,  
    User_Id serial PRIMARY KEY ,  
    FOREIGN KEY (User_Id) REFERENCES Person(User_Id) ON DELETE CASCADE  
);
```

CREATE TABLE agent

```
(  
    User_Id serial PRIMARY KEY ,  
    city_id numeric(5) references city(city_id),  
    FOREIGN KEY (User_Id) REFERENCES Person(User_Id) ON DELETE CASCADE  
);
```

CREATE type transaction\_s as enum('Success','Pending','Failed');

CREATE type payment\_t as enum('Cash','Card','Cheque');

CREATE TABLE Payment

```
(  
    Transaction_ID serial,  
    Transaction_Status transaction_s,  
    Payment_Amount float(8) NOT NULL,  
    Payment_Type payment_t,  
    Payment_Date DATE NOT NULL,  
    Convenience_fees float(8) NOT NULL,  
    PRIMARY KEY (Transaction_ID)  
);
```

CREATE type features\_t as enum('Standard','Deluxe','Premium');

CREATE type property\_t as enum('Commercial','Residential');

CREATE type property\_a as enum('Unfurnished','Furnished');

CREATE TABLE Property

```
(  
    Property_ID serial ,  
    Property_Name varchar(20) NOT NULL,  
    Price float(8) NOT NULL,  
    Features features_t,  
    property_Type property_t DEFAULT 'Residential',  
    Ammenities property_a DEFAULT 'Furnished',  
    property_layout varchar(10) not null,  
    property_desc varchar(200) not null,  
    Address_info varchar(100) NOT NULL,  
    Street varchar(20) NOT NULL,  
    Pincode numeric(7) NOT NULL,
```

```

    Seller_Id serial NOT NULL,

    Agent_Id serial NOT NULL,

    City_ID numeric(5) NOT NULL,

    PRIMARY KEY (Property_ID),

    FOREIGN KEY (Seller_Id) REFERENCES Seller(User_Id) ON DELETE
CASCADE,

    FOREIGN KEY (Agent_Id) REFERENCES Agent(User_Id) ON DELETE
CASCADE,

    FOREIGN KEY (City_ID) REFERENCES City(city_id) ON DELETE CASCADE
);

CREATE type booking_s as enum('Success','Pending','Failed');

CREATE TABLE Booking
(
    Booking_ID serial ,

    Booking_Status booking_s,

    Booking_Date DATE NOT NULL,

    transaction_id serial references payment(transaction_id) ON DELETE CASCADE ,

    buyer_id serial references buyer(user_id) ON DELETE CASCADE ,

    property_id serial references property(property_id) ON DELETE CASCADE ,

    PRIMARY KEY (booking_id)
);

```

```

CREATE type visit_s as enum('Success','Pending','Failed');

```

CREATE TABLE Visit

(

Visit\_ID serial NOT NULL,

Visit\_date Date NOT NULL,

visit\_time Time NOT NULL CHECK(visit\_time>'10:00:00' AND  
visit\_time<'17:00:00'),

visit\_status visit\_s,

Buyer\_Id serial NOT NULL,

Property\_Id serial NOT NULL,

PRIMARY KEY (Visit\_ID),

FOREIGN KEY (Buyer\_Id) REFERENCES Buyer(User\_Id) ON DELETE  
CASCADE,

FOREIGN KEY (Property\_Id) REFERENCES Property(Property\_ID) ON DELETE  
CASCADE

);

Create table property\_images

(

property\_id serial references property(property\_id),

image\_path varchar(100) ,

primary key(property\_id, image\_path)

);