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CREATE TABLE Real_Estate_Office
(
  office_ph_num VARCHAR NOT NULL,
  officeID INT NOT NULL,
  PRIMARY KEY (officeID)
);
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CREATE TABLE Payments
(
  pmt_type VARCHAR NOT NULL,
  card_num INT NOT NULL,
  expiration VARCHAR NOT NULL,
  CCV INT NOT NULL,
  paymentID INT NOT NULL,
  PRIMARY KEY (paymentID),
  UNIQUE (card_num)
);
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CREATE TABLE Discount
(
  discount_amt NUMERIC(4,2) NOT NULL,
  discountID INT NOT NULL,
  PRIMARY KEY (discountID)
);
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CREATE TABLE Rewards
(
  points_balance INT NOT NULL,
  rewards_ID INT NOT NULL,
  PRIMARY KEY (rewards_ID)
);
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CREATE TABLE Neighborhood
(
  walkability_score INT NOT NULL,
  crime_rate NUMERIC(4,2) NOT NULL,
  school_rating CHAR(1) NOT NULL,
  neighborhoodID INT NOT NULL,
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PRIMARY KEY (neighborhoodID)
);

CREATE TABLE Realtor
(
    commission NUMERIC(4,2) NOT NULL,
    realtorID INT NOT NULL,
    officeID INT NOT NULL,
    PRIMARY KEY (realtorID),
    FOREIGN KEY (officeID) REFERENCES Real_Estate_Office(officeID)
);

CREATE TABLE Renter
(
    primary_pmt INT NOT NULL,
    secondary_pmt INT NOT NULL,
    SSN INT NOT NULL,
    renterID INT NOT NULL,
    rewards_ID INT NOT NULL,
    PRIMARY KEY (renterID),
    FOREIGN KEY (rewards_ID) REFERENCES Rewards(rewards_ID),
    UNIQUE (SSN)
);

CREATE TABLE Property
(
    sq_ft INT NOT NULL,
    no_bedrooms INT NOT NULL,
    no_baths INT NOT NULL,
    pool CHAR(1) NOT NULL,
    property_type VARCHAR NOT NULL,
    description VARCHAR NOT NULL,
    monthly_rent NUMERIC(10,2) NOT NULL,
    rent_start_date DATE NOT NULL,
    rent_end_date DATE NOT NULL,
    propertyID INT NOT NULL,
    discountID INT NOT NULL,
    neighborhoodID INT NOT NULL,
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    realtorID INT NOT NULL,
    PRIMARY KEY (propertyID),
    FOREIGN KEY (discountID) REFERENCES Discount(discountID),
    FOREIGN KEY (neighborhoodID) REFERENCES
Neighborhood(neighborhoodID),
    FOREIGN KEY (realtorID) REFERENCES Realtor(realtorID)
);

CREATE TABLE rents
(
    renterID INT NOT NULL,
    propertyID INT NOT NULL,
    PRIMARY KEY (renterID, propertyID),
    FOREIGN KEY (renterID) REFERENCES Renter(renterID),
    FOREIGN KEY (propertyID) REFERENCES Property(propertyID)
);

CREATE TABLE has
(
    renterID INT NOT NULL,
    paymentID INT NOT NULL,
    PRIMARY KEY (renterID, paymentID),
    FOREIGN KEY (renterID) REFERENCES Renter(renterID),
    FOREIGN KEY (paymentID) REFERENCES Payments(paymentID)
);

CREATE TABLE Address
(
    st_address VARCHAR NOT NULL,
    city VARCHAR NOT NULL,
    state CHAR(2) NOT NULL,
    zipcode VARCHAR NOT NULL,
    addressID INT NOT NULL,
    officeID INT NOT NULL,
    propertyID INT NOT NULL,
    PRIMARY KEY (addressID),
    FOREIGN KEY (officeID) REFERENCES Real_Estate_Office(officeID),
    FOREIGN KEY (propertyID) REFERENCES Property(propertyID),

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    UNIQUE (st_address)
);

CREATE TABLE Transactions
(
    total NUMERIC(10,2) NOT NULL,
    discount_amt NUMERIC(10,2) NOT NULL,
    approv_code VARCHAR NOT NULL,
    pmt_amt NUMERIC(10,2) NOT NULL,
    transactionID INT NOT NULL,
    paymentID INT NOT NULL,
    discountID INT NOT NULL,
    propertyID INT NOT NULL,
    PRIMARY KEY (transactionID),
    FOREIGN KEY (paymentID) REFERENCES Payments(paymentID),
    FOREIGN KEY (discountID) REFERENCES Discount(discountID),
    FOREIGN KEY (propertyID) REFERENCES Property(propertyID),
    UNIQUE (approv_code)
);

CREATE TABLE Users
(
    fname VARCHAR NOT NULL,
    lname VARCHAR NOT NULL,
    role CHAR(3) NOT NULL,
    ph_number VARCHAR NOT NULL,
    user_ID INT NOT NULL,
    renterID INT NOT NULL,
    addressID INT NOT NULL,
    realtorID INT NOT NULL,
    PRIMARY KEY (user_ID),
    FOREIGN KEY (renterID) REFERENCES Renter(renterID),
    FOREIGN KEY (addressID) REFERENCES Address(addressID),
    FOREIGN KEY (realtorID) REFERENCES Realtor(realtorID)
);
```