


```

create database if not exists propertyPortal;
use propertyPortal;

drop table if exists Offer, Inquiry, propertyFeature, Feature, propertyAgent, Property, Buyer, Agent, Agency;

-- Agency Table(3NF)
create table Agency (
  id int auto_increment primary key,
  name varchar(100) not null,
  address varchar(200),
  phone varchar(20)
);

-- Agent Table(3NF)
create table Agent (
  id int auto_increment primary key,
  agencyId int,
  name varchar(100) not null,
  email varchar(200) unique not null,
  phone varchar(20) unique not null,
  foreign key(agencyId) references Agency(id)
);

-- Buyer Table(3NF)
create table Buyer (
  id int auto_increment primary key,
  name varchar(100) not null,
  email varchar(200) unique not null,
  phone varchar(20) unique not null
);

-- Property Table(3NF)
create table Property (
  id int auto_increment primary key,
  title varchar(100) not null,
  description varchar(100),
  address varchar(200) not null,
  neighborhood varchar(100),
  region varchar(100) not null,
  listingDate datetime not null,
  status enum("available", "under_offer", "sold") not null,
  fulltext(description)
);

-- Property Price History(3NF)
CREATE TABLE propertyPriceHistory (
  id int auto_increment primary key,
  propertyId int not null,
  price bigint not null,
  changedAt datetime not null default current_timestamp,
  priceType enum('listing', 'updated', 'sold') not null,
  foreign key(propertyId) references Property(id)
);

-- Property X Agent(3NF)
create table propertyAgent (
  propertyId int not null,
  agentId int not null,
  primary key(propertyId, agentId),
  foreign key(propertyId) references Property(id),
  foreign key(agentId) references Agent(id)
);

-- Feature Table(3NF)
create table Feature (
  id int auto_increment primary key,
  name varchar(100) unique not null,
  category enum("Indoor", "Outdoor") not null
);

-- Property X Feature(3NF)
create table propertyFeature (
  propertyId int,
  featureId int,
  primary key(propertyId, featureId),
  foreign key(propertyId) references Property(id),
  foreign key(featureId) references Feature(id)
);

-- Offer Table(3NF)
create table Offer (
  id int auto_increment primary key,
  agentId int,
  buyerId int,
  propertyId int,
  offerAmount int,
  offerDate datetime,
  status enum("pending", "accepted", "rejected") not null default "pending",
  foreign key(agentId) references Agent(id),
  foreign key(buyerId) references Buyer(id),
  foreign key(propertyId) references Property(id)
);

-- Inquiry Table(3NF)
create table Inquiry (
  id int auto_increment primary key,
  createdAt datetime default current_timestamp,
  message text,
  status enum("new", "responded", "closed"),
  agentId int,
  buyerId int,
  propertyId int,
  closedAt datetime,
  foreign key(agentId) references Agent(id),
  foreign key(buyerId) references Buyer(id),
  foreign key(propertyId) references Property(id)
);

-- Indexes for common queries
create index idxPropertyDescription on property(description);
create index idxPropertyNeighborhood on property(neighborhood);
create index idxPropertyStatus on Property(status);
create index idxPropertyListingDate on Property(listingDate);
create index idxInquiryDateProperty on Inquiry(createdAt, propertyId);
create index idxOfferDateStatus on Offer(offerDate, status);
create index idxInquiryClosedAt on Inquiry(closedAt);

```