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realestate.sql

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-- HW2 realestate.sql

use evanlaar_db;

-- drop tables if they exist, dropping children before parents
-- due to referential integrity constraints

drop table if exists house_attr;
drop table if exists cust_pref;
drop table if exists char_list;
drop table if exists customers;
drop table if exists house;

-- house table lists house attributes except characteristics

create table house(
  hid integer auto_increment primary key,
  owner varchar(50),
  price decimal(9,2),
  city varchar(50),
  st varchar(2)
)
ENGINE = InnoDB;

-- char list is characteristics that can either be attributes of
-- a house or things that a customer is seeking to find

create table char_list(
  char_id integer auto_increment primary key,
  attribute varchar(100),
  description varchar(50)
)
ENGINE = InnoDB;

-- house_attr links char_list and house

create table house_attr(
  hid integer,
  INDEX(hid),
  foreign key (hid) references house(hid) on delete cascade,
  char_id integer,
  INDEX(char_id),
  foreign key (char_id) references char_list(char_id) on delete cascade
)
ENGINE = InnoDB;

-- customers is simple list of customer info (except preferences)

create table customers(
  cid integer auto_increment primary key,
  nm varchar(50),
  price_min decimal(9,2),
  price_max decimal(9,2)
)
ENGINE = InnoDB;

-- cust_pref links char_list and customers

create table cust_pref(
  cid integer,
  INDEX(cid),
  foreign key (cid) references customers(cid) on delete cascade,
  char_id integer,
  INDEX(char_id),
  foreign key (char_id) references char_list(char_id) on delete cascade
)
ENGINE = InnoDB;

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