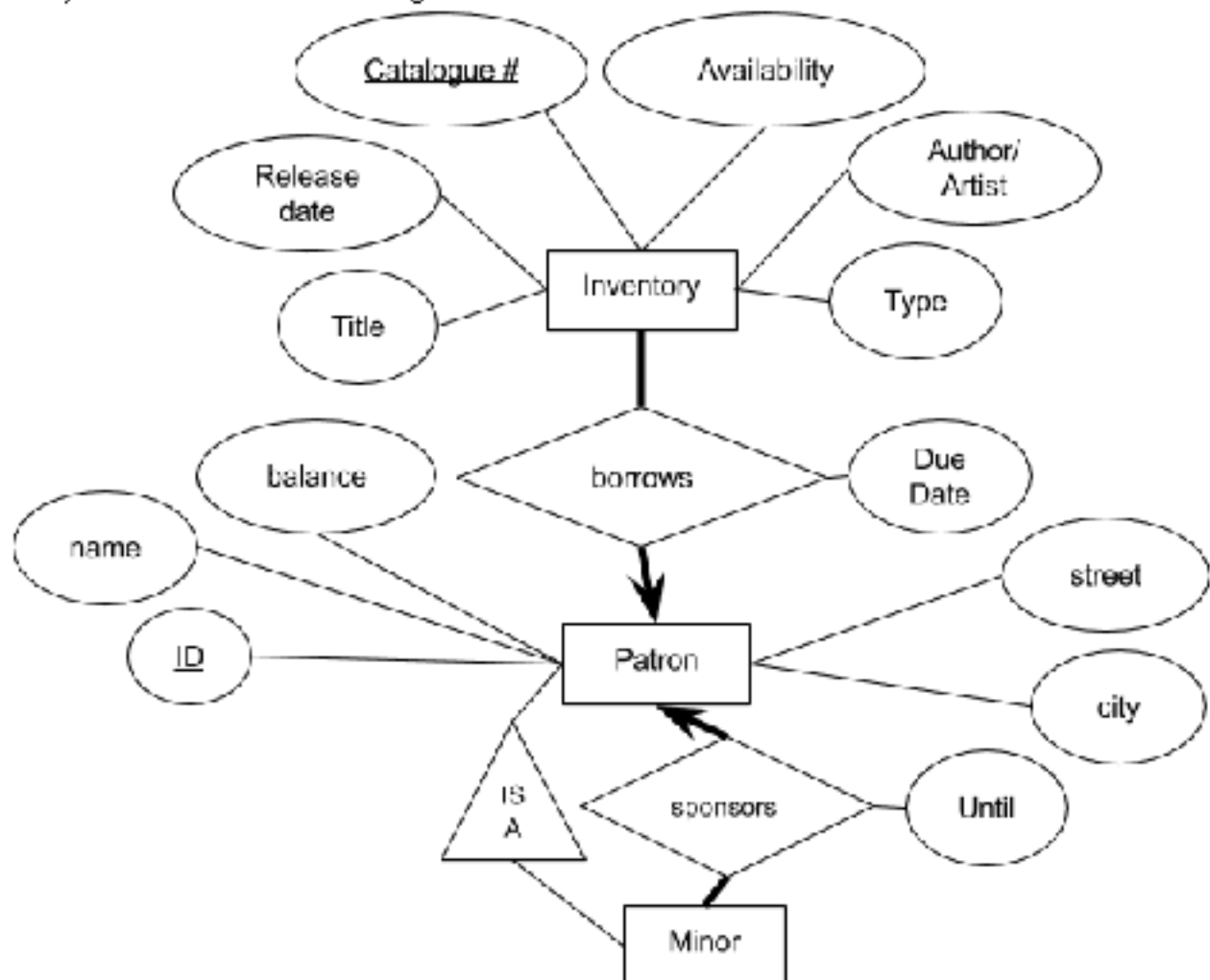


LIBRARY DB ER DIAGRAM  
Emily Van Laarhoven and MR Ngo



Feb 14, 17 13:58

library.sql

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```

-- Emily Van Laarhoven, NR Nyo
-- NW2 library.sql

use evenlaar_db;

drop table if exists patron;
create table patron(
  pid integer auto_increment primary key,
  ns varchar(50) not null,
  balance decimal(3,2) default 0,
  street varchar(50) not null,
  city varchar(50) not null,
  |
  ENGINE = InnoDB;

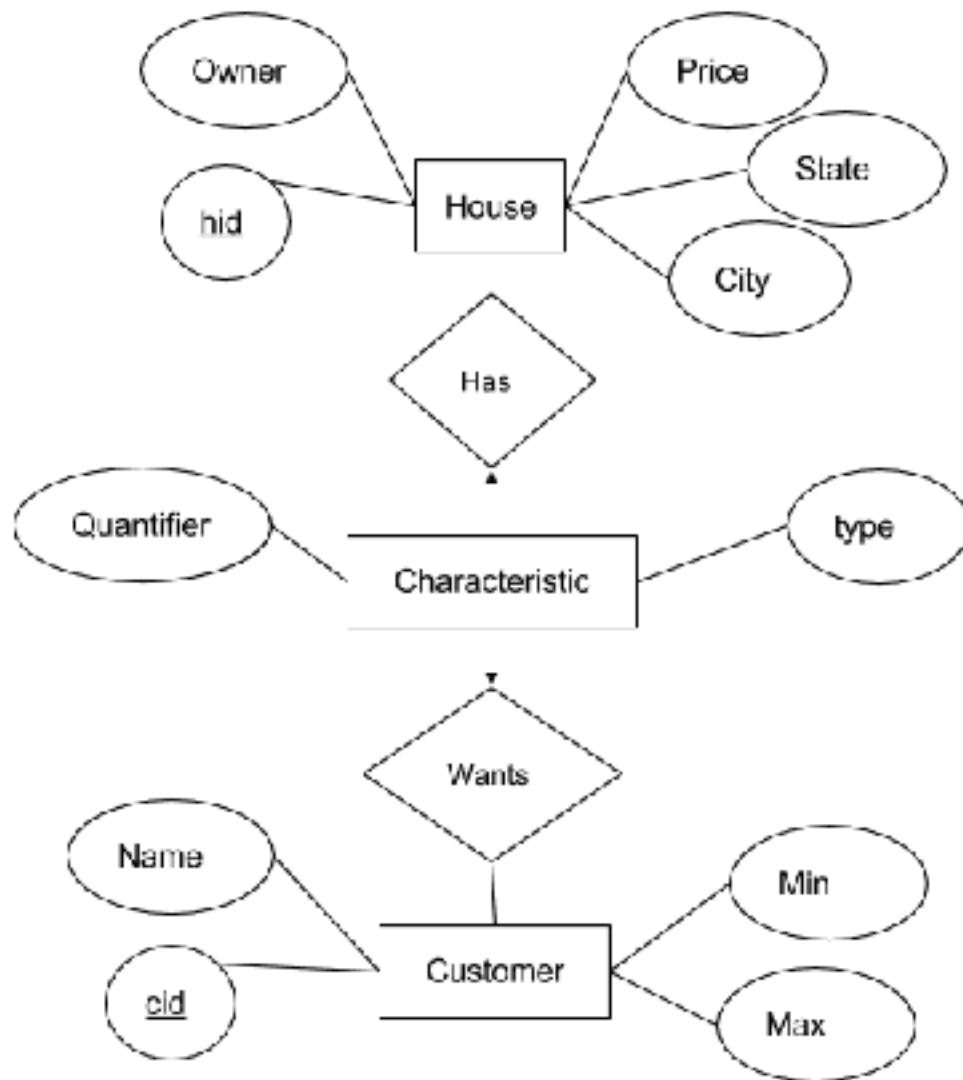
drop table if exists sponsors;
create table sponsors(
  minor_id integer,
  sponsor_id integer,
  until date,
  INDEX(minor_id),
  foreign key (minor_id) references patron(pid) on delete restrict,
  INDEX(sponsor_id),
  foreign key (sponsor_id) references patron(pid) on delete restrict,
  |
  ENGINE = InnoDB;

drop table if exists inventory;
create table inventory(
  cid integer auto_increment primary key,
  title varchar(100),
  pub_date date,
  author_artist varchar(100),
  item_type enum('book','cd','tape','dvd'),
  availability tinyint(1) -- bool (0=not available)
  |
  ENGINE = InnoDB;

drop table if exists borrows;
create table borrows(
  pid integer not null,
  INDEX(pid),
  foreign key (pid) references patron(pid) on delete restrict,
  cid integer unique not null, -- unique (only one person checks out)
  INDEX(cid),
  foreign key (cid) references inventory(cid) on delete restrict,
  due_date date,
  |
  ENGINE = InnoDB;

```

REAL ESTATE DB ER DIAGRAM  
Emily Van Laarhoven, MR Ngo



Feb 15, 17 21:51

realestate.sql

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```

-- Emily Van Laarhoven, NR Nyo
-- MW2 realestate.sql

use evenlaar_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(30),
  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(30)
  |
  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;

```

RESEARCH DB ER DIAGRAM  
Emily Van Laarhoven and MR Ngo

