Homework 3

Ethan Meltzer

I have adhered to the Honor Code on this assignment.

```
    (a) author, name
        publisher, name
        customer, email
        shopping_basket, basket_id
        book, ISBN
        warehouse, code
    (b)
```

m shopping_basket **∏** basket_id m contains email varchar(256) 📭 isbn **basket_id** int(11) **basket_id** int(11) number int(11) **⊞** customer □ name **⊞** stocks ☐ address varchar(256) [isbn □ phone [code 📭 email number int(11) disc_id int(11) **⊞** book **⊞** bluray m warehouse □ title varchar(256) video_id int(11) address varchar(256) □ price □ phone □ price disc_id int(11) <u>,</u> code <u>∏</u> isbn **⊞** video

Ⅲ written_by

⊞ author

■ address varchar(256)

[isbn

□ url

<u>name</u>

□ published_by

m publisher

■ address varchar(256)

🕞 isbn

□ phone
□ url

📭 name

name varchar(256)

📭 brand_id

(c)

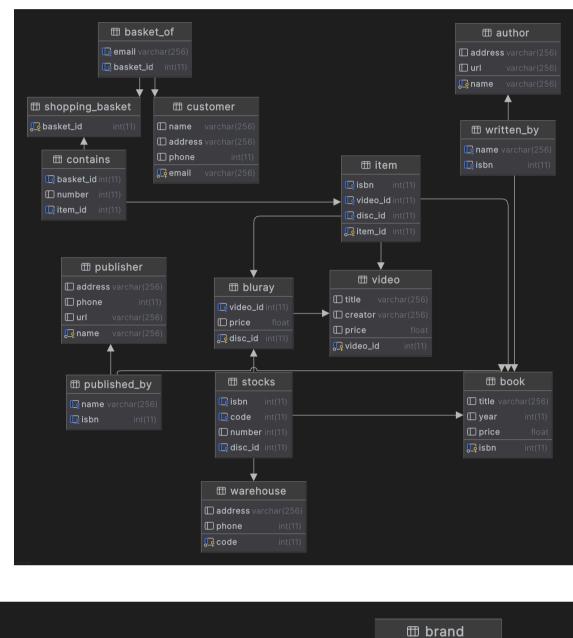
2.

title

□ price

📭 video_id

☐ creator varchar(256)



⊞ model 📭 brand_id name varchar(256) model_id m options **⊞** dealer m customer **⊞** car model_id name varchar(256) name varchar(256) model_id int(11) name varchar(256) □ location varchar(256) customer_id int(11) **vin** varchar(17) □ description text 📭 dealer_id 📭 option_id m owns **⊞** stocks customer_id int(11) dealer_id int(11) vin varchar(17) ြု့ vin vin varchar(17) option_id int(11) dealer_id Below is the list of SQL commands used to generate the above ER diagram. The DDL contains both relationship schema as well as primary and foreign key constraints. use car_dealer; create table brand brand_id int primary key, name varchar(256)

```
create table model
   model_id int primary key,
   brand_id int,
   name varchar(256),
   year
           int,
   foreign key (brand_id) references brand (brand_id)
);
create table options
   option_id int primary key,
         _id int,
varchar(256),
   model_id
   name
   description text,
   foreign key (model_id) references model (model_id)
);
create table dealer
   dealer_id int primary key,
   name varchar(256),
   location varchar(256)
);
create table customer
   customer_id int primary key,
   name varchar(256)
);
create table car
(
           varchar(17) primary key,
   model id int,
   foreign key (model id) references model (model id)
);
create table stocks
(
   dealer_id int,
           varchar(17),
   foreign key (dealer_id) references dealer (dealer_id),
    foreign key (vin) references car (vin)
);
create table owns
   customer_id int,
            varchar(17),
   dealer_id int,
   foreign key (customer_id) references customer (customer_id),
   foreign key (vin) references car (vin),
```

foreign key (dealer_id) references dealer (dealer_id)

foreign key (option_id) references options (option_id)

);

);

create table has_option

option_id int,

varchar(17),

foreign key (vin) references car (vin),