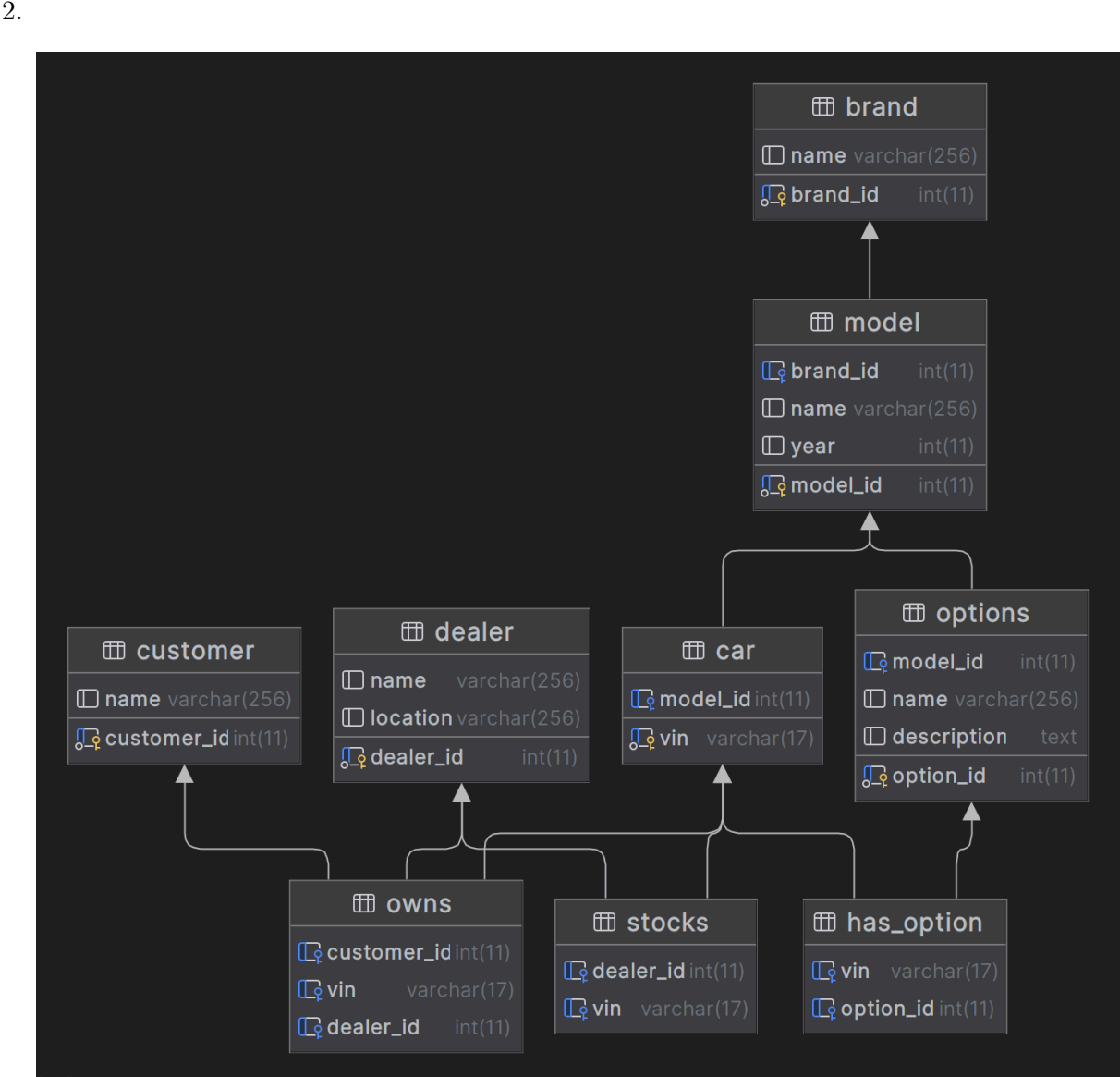
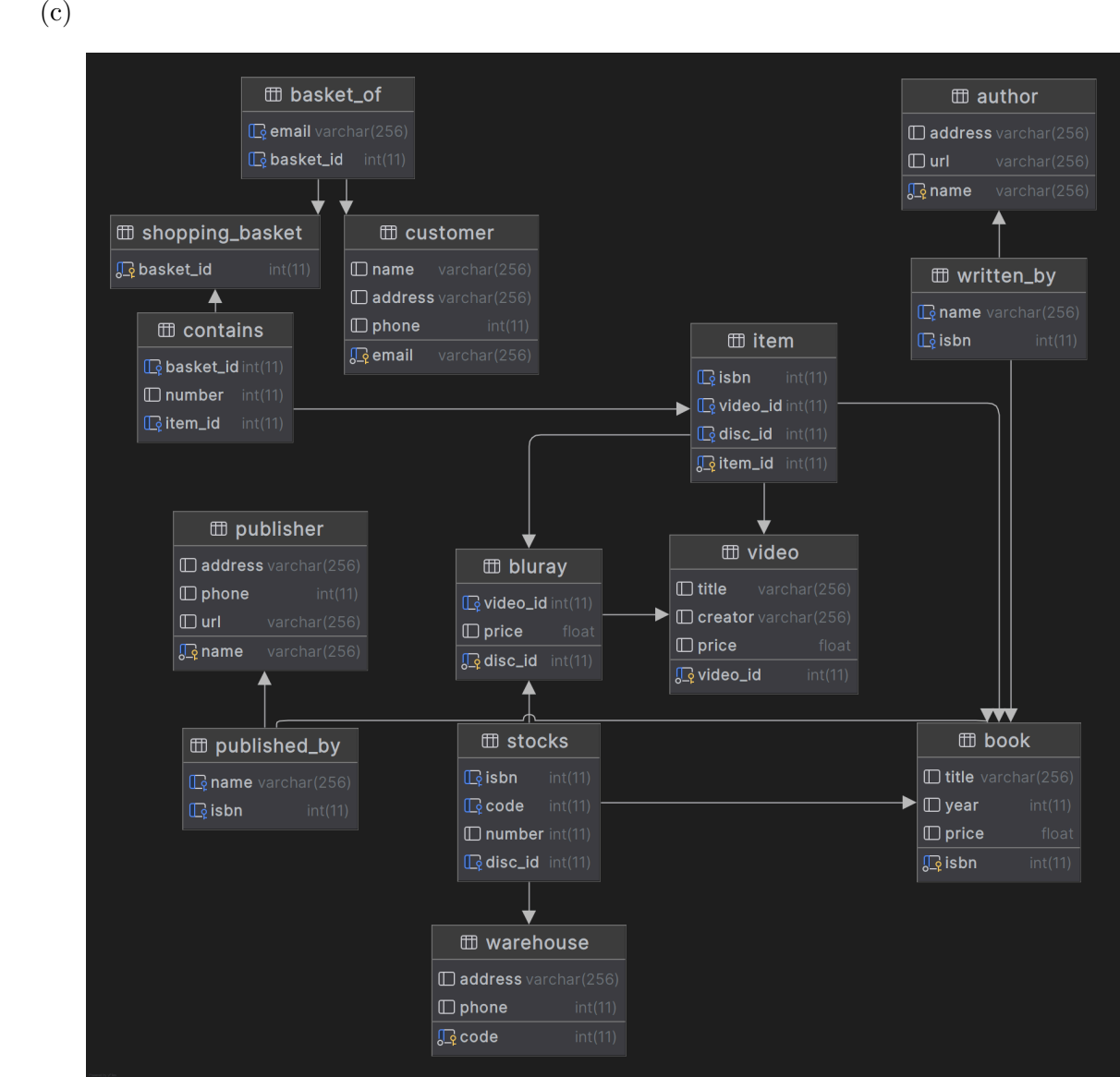
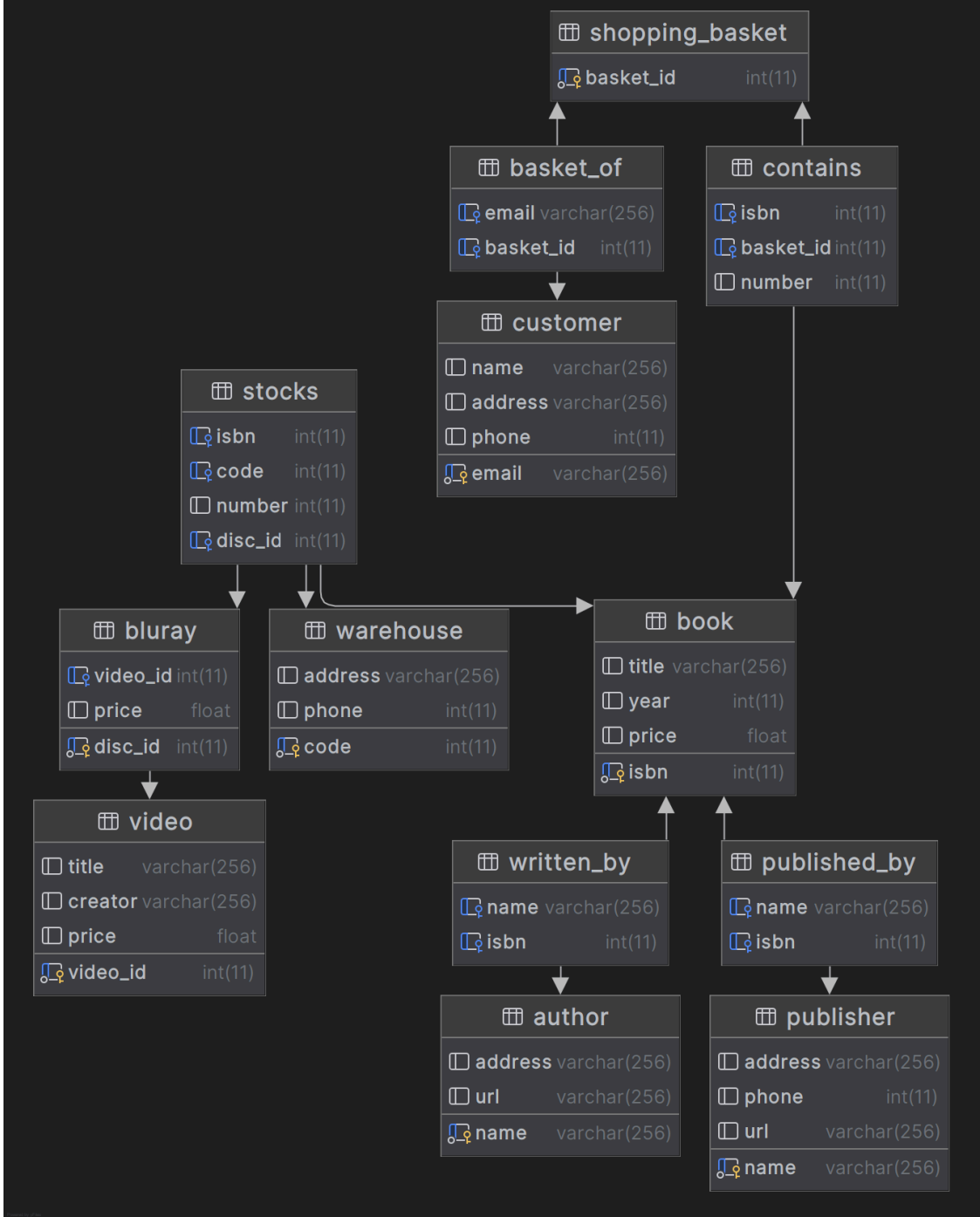


Homework 3

Ethan Meltzer
I have adhered to the Honor Code on this assignment.

1.
- (a)

author, name
publisher, name
customer, email
shoppingBasket, basket_id
book, ISBN
warehouse, code
- (b)



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,
    model_id int,
    name varchar(256),
    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
(
    vin varchar(17) primary key,
    model_id int,
    foreign key (model_id) references model (model_id)
);

create table stocks
(
    dealer_id int,
    vin varchar(17),
    foreign key (dealer_id) references dealer (dealer_id),
    foreign key (vin) references car (vin)
);

create table owns
(
    customer_id int,
    vin 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)
);

create table has_option
(
    vin varchar(17),
    option_id int,
    foreign key (vin) references car (vin),
    foreign key (option_id) references options (option_id)
);
```