```
create table customer
       (customer id
                                     int,
        first name
                                     varchar(20) not null,
        last name
                                     varchar(20) not null,
        customer phone number
                                    char(10),
        customer email
                                     varchar(50),
                                     numeric(9,2) check (payment total \geq = 0),
        payment total
                                     numeric(9,2) check (paid total \geq = 0),
        paid total
        balance
                                     numeric(9,2) check (balance \geq = 0),
        da line one
                                     varchar(100) not null,
        da line two
                                     varchar(100),
                                     varchar(50) not null,
        da city
        da state
                                     varchar(25) not null,
        da zipcode
                                     char(5) not null,
        primary key(customer id));
create table credit card
       (card number
                             char(16),
        card owner name
                             varchar(40),
        card expire date
                             char(4),
        card cvv
                             char(3),
                             varchar(100),
        cba line one
        cba line two
                             varchar(100),
        cba state
                             varchar(25),
        cba zipcode
                             char(5),
        primary key (card number));
create table orders
       (order id
                                     int.
        customer id
                                     int.
        payment card number
                                     char(16),
                                     numeric(9,2) check (ordering total \geq = 0),
        ordering total
                                     varchar(8) check (status in (('issued', 'send', 'received')
        status
        primary key (order id),
        foreign key (customer id) references customer,
        foreign key (payment card number) references credit card (card number));
create table paidwith
       (order id
                             int,
       card number
                             char(16),
       primary key (order id, card number).
       foreign key (order id) references orders,
       foreign key (card number) references credit card);
```

```
create table staff
       (staff id
                             int,
        first name
                             varchar(20) not null,
        last name
                             varchar(20) not null,
        a line one
                             varchar(100),
        a line two
                             varchar(100),
        a city
                             varchar(50).
        a state
                             varchar(25),
        a zipcode
                             char(5),
        staff phone number char(10),
        staff email
                             varchar(50) not null,
        salary
                             int not null,
        job title
                             varchar(20) not null,
        primary key (staff id));
create table product
       (product id
                             int.
       product name
                             varchar(30) not null,
        category
                             varchar(30) not null,
        size
                             numeric(12,5) not null,
        primary key (product id));
create table label
       (product id
        category
                                     varchar(30) not null,
        additional information
                                     varchar(150) not null,
        primary key (product id));
create table warehouse
       (warehouse id
                                     int.
        warehouse name
                                     varchar(20),
        a line one
                                     varchar(100),
        a line two
                                     varchar(100),
        a city
                                     varchar(50),
                                     varchar(25),
        a state
        a zipcode
                                     char(5).
        capacity
                                     numeric(12,5) check (capacity \geq=0),
        capacity used
                                     numeric(12,5) check (capacity used >=0) default 0,
        capacity remained
                                     numeric(12,5) check (capacity remained >=0),
        primary key (warehouse id));
create table product price
       (product id
                             int,
        delivery state
                             varchar(25),
        unit price
                             numeric(9,2),
        primary key (product id, delivery state),
        foreign key (product id) references product);
```

```
create table supplier
       (supplier id
                             int,
                             varchar(20) not null,
        name
        supplier email
                             varchar(50),
        supplier number
                             char(10),
        a line one
                             varchar(100),
        a line two
                             varchar(100),
        a city
                             varchar(50),
        a state
                             varchar(25),
        a zipcode
                             char(5),
        primary key (supplier id));
create table order item
       (order id
                             int,
       product id
                             int,
                             int check (quantity >0),
        quantity
        unit price
                             numeric(9,2),
        subtotal
                             numeric(9,2),
        primary key (order id, product id),
       foreign key (order id) references orders,
       foreign key (product id) references product);
create table order item warehouse id
       (order id
        product id
                             int,
        warehouse id
                             int.
        primary key (order id, product id, warehouse id),
        foreign key (order id) references orders,
        foreign key (product id) references product,
        foreign key (warehouse id) references warehouse);
create table supplier item
       (supplier id
                             int,
        product id
                             int,
                             numeric(9,2),
        supplier price
        primary key (product id),
        foreign key (supplier id) references supplier,
        foreign key (product id) references product);
create table owns
       (customer id
                             int,
        card number
                             char(16),
        foreign key (customer id) references customer,
        foreign key (card number) references credit card);
```

```
create table pricing
       (staff id
                              int,
       product id
                              int,
       delivery state
                              varchar(25),
                              numeric(9,2) check (new price >0),
       new price
       primary key(product id, delivery state),
       foreign key (staff id) references staff,
       foreign key (product id, delivery state) references product price);
create table stock
       (product id
                              int.
        warehouse id
                              int.
        item quantity
                              int check (item quantity \geq 0),
        size total
                              numeric(12,5),
        primary key (product id, warehouse id),
       foreign key (product id) references product,
       foreign key (warehouse id) references warehouse);
create table add stock
       (staff id
                              int,
       product id
                              int,
       warehouse id
                              int,
       add quantity
                              int check (add quantity >0),
       add size
                              numeric(12,5),
       primary key (product id, warehouse id),
       foreign key (staff id) references staff,
       foreign key (product id, warehouse id) references stock);
create table request
       (staff id
                              int.
        supplier id
                              int,
                              varchar(100),
        details
        primary key (staff id, supplier id, details),
        foreign key (staff id) references staff,
        foreign key (supplier id) references supplier);
create table ordering
       (customer id
                              int.
        order id
                              int.
        staff id
                              int,
        primary key (customer id, order id, staff id),
        foreign key (customer id) references customer,
        foreign key (order id) references orders,
        foreign key (staff id) references staff);
```

```
create table availability
       (product id
                             int,
       warehouse id
                             int,
       item quantity
                             int check (item quantity >=0),
       primary key(product id, warehouse id, item quantity)
       foreign key (product id) references product,
       foreign key (warehouse id) references warehouse);
create table includes
       (order id
                             int,
       product id
                             int.
                             int check (quantity>0),
       quantity
       primary key (order id, product id),
       foreign key (order id) references orders,
       foreign key (product id) references product);
create table supplies
       (supplier id
                             int,
       product id
                             int,
        supplier price
                             numeric(9,2),
        primary key(supplier id, product id, supplier price),
        foreign key (supplier id) references supplier,
        foreign key (product id) references product);
create table stores
       (product id
                             int,
       warehouse id
                             int,
       size total
                             numeric(12,5),
       primary key (product id, warehouse id),
       foreign key (product id) references product,
       foreign key (warehouse id) references warehouse);
```