```
create table customer
       (customer_id
                                     char(10) not null.
       first_name
                                     varchar(20) not null,
        last_name
                                     varchar(20) not null,
        customer_phone_number
                                     char(10),
        customer_email
                                     varchar(50),
                                     smallint check (payment_total >=0),
        payment_total
                                     smallint check (paid_total >=0),
        paid_total
        balance
                                     smallint check (balance >=0),
        da_line_one
                                     varchar(100),
        da_line_two
                                     varchar(100),
        da_city
                                     varchar(50),
        da state
                                     varchar(25),
        da_zipcode
                                     char(5),
        primary key(customer_id));
create table credit_card
       (card number
                              char(16) not null.
        card_owner_name
                              varchar(40),
                              char(5),
        card_expire_date
        card_cvv
                              char(3),
        cba line one
                              varchar(100),
                              varchar(100),
        cba_line_two
        cba state
                              varchar(25),
        cba_zipcode
                              varchar(10),
        primary key (card_number));
create table orders
       forder id
                                     char(20) not null,
        customer_id
                                     char(20),
        payment_card_number
                                     varchar(16).
                                     smallint check (ordering_total >=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
                              char(20),
       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
                              char(20) not null,
       (staff_id
        first_name
                              varchar(20) not null,
                              varchar(20) not null,
        last_name
        a_line_one
                              varchar(100),
        a_line_two
                              varchar(100),
                              varchar(50),
        a_city
        a_state
                              varchar(25),
        a_zipcode
                              char(5),
```

```
staff_phone_number char(10),
        staff email
                              varchar(50),
        salary
                              int.
       job_title
                              varchar(20)
       primary key (staff_id));
create table product
                              char(20) not null,
       (product_id
       product_name varchar(30),
        category
                              varchar(30),
        size
                              numeric(9,2),
       primary key (product_id));
create table label
       (product_id
                                     char(20),
                                     varchar(30),
       category
        additional_information
                                     varchar(150),
        primary key (product_id));
create table warehouse
       (warehouse_id
                                     char(20),
       warehouse_name
                                     varchar(20),
                                     varchar(100),
        a_line_one
       a_line_two
                                     varchar(100),
                                     varchar(50),
        a_city
        a_state
                                     varchar(25),
        a_zipcode
                                     char(5),
                                     numeric(9,2) check (capacity >=0),
        capacity
                                     numeric(9,2) check (capacity_used >=0),
        capacity_used
                                     numeric(9,2) check (capacity_remained >=0),
        capacity_remained
        primary key (warehouse_id));
create table product_price
       (product_id
                              char(20),
       delivery_state
                              varchar(25),
        unit_price
                              smallint,
        primary key (product_id, delivery_state),
        foreign key (product_id) references product );
create table supplier
       (supplier_id
                              char(20),
                              varchar(20),
       name
        supplier_emailvarchar(50),
        supplier_number
                              char(10),
                              varchar(100),
        a_line_one
       a_line_two
                              varchar(100),
                              varchar(50),
        a_city
        a_state
                              varchar(25),
        a_zipcode
                              char(5),
        primary key (supplier_id));
create table order_item
       (order_id
                              char(20),
       product_id
                              char(20),
```

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int check (quantity >0),
        quantity
        unit_price
                              smallint.
        subtotal
                              int.
        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
                              char(20).
       product_id
                              char(20),
        warehouse_id
                              char(20),
       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
                              char(20).
       product_id
                              char(20),
                              smallint,
        supplier_price
        primary key (product_id),
        foreign key (supplier_id) references supplier,
        foreign key (product_id) references product);
create table owns
       (customer_id
                              char(20),
        card_number
                              char(16),
        foreign key (customer_id) references customer,
        foreign key (card_number) references credit_card);
create table pricing
       (staff_id
                              char(20),
       product_id
                              char(20),
                              varchar(25),
       delivery_state
                              smallint 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
                              char(20),
        warehouse_id
                              char(20),
                              int check (item_quantity >= 0),
        item_quantity
        size_total
                              numeric(9,2),
        primary key (product_id, warehouse_id),
       foreign key (product_id) references product,
       foreign key (warehouse_id) references warehouse);
create table add_stock
       (staff id
                              char(20).
       product_id
                              char(20),
       warehouse_id
                              char(20),
       add_quantity
                              int check (add_quantity >0),
```

```
add_size
                              numeric(9,2),
       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
                              char(20).
                              char(20),
        supplier_id
                       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
                              char(20),
        order_id
                              char(20),
        staff id
                              char(20).
       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
                              char(20),
       warehouse_id
                              char(20),
                              int check (item_quantity >=0),
       item_quantity
       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
                              char(20),
                              char(20).
       product_id
                              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
                              char(20),
        product_id
                              char(20),
                              smallint,
       supplier_price
        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
                              char(20),
       warehouse_id
                              char(20),
```

size_total numeric(9,2), primary key (product_id, warehouse_id), foreign key (product_id) references product, foreign key (warehouse_id) references warehouse);