```
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),
         Payment_Total              smallint check (Payment_Total >=0),
         Paid_Total                 smallint check (Paid_Total >=0),
         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),
         Card_Expire_Date   char(5),
         Card_CVV           char(3),
         CBA_Line_One       varchar(100),
         CBA_Line_Twovarchar(100),
         CBA_State          varchar(25),
         CBA_Zipcode        varchar(10),
         primary key (Card_Number),
         foreign key (Customer_ID) references Customer);

create table Order
        (Order_ID                   char(20) NOT NULL,
         Customer_ID                char(20),
         Payment_Card_Number        varchar(16),
         Ordering_Total             smallint check (Ordering_Total >=0),
         Status                     varchar(8),
         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 Order
```

```
        foreign key (Card_Number) references Credit_Card);

create table Staff
        (Staff_ID               char(20) NOT NULL,
         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),
         Salary                 int,
         Job_Title              varchar(20)
         primary key (Staff_ID));

create table Product
        (Product_ID             char(20) NOT NULL,
         Product_Name           varchar(30),
         Category               varchar(30),
         Size                   float(8),
         primary key (Product_ID));

create table Label
        (Product_ID                     char(20),
         Category                       varchar(30),
         Additional_information         varchar(150),
         primary key (Product_ID));

create table Warehouse
        (Warehouse_ID                   char(20),
         Warehouse_Name                 varchar(20),
         A_Line_One                     varchar(100),
         A_Line_Two                     varchar(100),
         A_City                         varchar(50),
         A_State                        varchar(25),
         A_Zipcode                      char(5),
         Capacity                       float(8) check (Capacity >=0),
         Capacity_Used                  float(8) check (Capacity_Used >=0),
         Capacity_remained              float(8) check (Capacity_remained >=0),
         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),
         Name                   varchar(20),
         Supplier_Emai l        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               char(20),
         Product_ID             char(20),
         Quantity               int check (Quantity  >0),
         Unit_Price             smallint,
         Subtotal               int,
         primary key (Order_ID, Product_ID),
        foreign key (Order_ID) references Order,
        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 Order,
         foreign key (Product_ID) references Product,
         foreign key (Warehouse_ID) references Warehouse);

create table Supplier_Item
        (Supplier_ID            char(20),
         Product_ID             char(20),
         Supplier_Price         smallint,
         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),
        Delivery_State      varchar(25),
        New_Price           smallint check (New_Price  >0),
        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),
        Item_Quantity       int check (Item_Quantity  >= 0),
        Size_Total          float(8),
        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            float(8),
        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),
        Supplier_ID         char(20),
        Details         varchar(100),
        primary key (Staff_ID, Supplier, 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 Order,
         foreign key (Staff_ID) references Staff);


Create table Availability
        (Product_ID         char(20),
        Warehouse_ID        char(20),
        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,
         foreign key (Item_Quantity) references Stock);

Create table Includes
        (Order_ID           char(20),
        Product_ID          char(20),
        Quantity            int (Quantity  >0),
        primary key (Order_ID, Product_ID),
        foreign key (Order_ID) references Order,
        foreign key (Product_ID) references Product);

Create table Supplies
        (Supplier_ID        char(20),
        Product_ID          char(20),
        Supplier_Price      smallint,
        Primary key(Product_ID, Warehouse_ID, Supplier_Price)
        foreign key (Supplier_ID) references Supplier,
         foreign key (Product_ID) references Product,
         foreign key (Supplier_Price) references Supplier_Item);


Create table Stores
        (Product_ID         char(20),
        Warehouse_ID        char(20),
        Size_total          float(8),
```

primary key (Product_ID, Warehouse_ID),
foreign key (Product_ID) references Product,
foreign key (Warehouse_ID) references Warehouse**);**