```sql
-- criação do banco de dados para o cenário de E-commerce
create database ecommerce;
use ecommerce;


create table State(
   idState int not null auto_increment primary key,
    State_Name varchar(45) not null,
    Abbreviation char(2)
)
auto_increment=1;


create table City(
    idCity int not null auto_increment primary key,
    City_Name varchar(45) not null
)
auto_increment=1;


create table Address(
    idAddress int not null auto_increment primary key,
    Address_Number varchar(10) not null,
    Street_Name varchar(45) not null,
    County varchar(45),
    Zip_Code varchar(10) not null,
    idAddress_City int,
    idAddress_State int,
    constraint fk_Address_City foreign key (idAddress_City) references City(idCity),
    constraint fk_Address_State foreign key (idAddress_State) references State(idState)
)
auto_increment=1;


create table Client_Legal_Person(
    idClient_Legal_Person int not null primary key,
    Tax_ID_Number char(9) unique
);


create table Client_Natural_Person(
   idClient_Natural_Person int not null primary key,
    SSN char(9) unique
);

create table Clients(
    idClient int not null auto_increment primary key,
    Fname varchar(10) not null,
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    Minit varchar(3),
    Lname varchar(20) not null,
    Birthdate date not null,
    Client_Phone_Number char(11) not null,
    Email varchar(50) not null,
    Legal_Name varchar(50),
    idClient_Address int,
    idNatural_Person int,
    idLegal_Person int,
    constraint fk_Client_Address foreign key(idClient_Address) references
Address(idAddress),
    constraint fk_Natural_Person foreign key(idNatural_Person) references
Client_Natural_Person(idClient_Natural_Person),
    constraint fk_Legal_Person foreign key(idLegal_Person) references
Client_Legal_Person(idClient_Legal_Person)
)
auto_increment=1;
desc Clients;
desc Client_Natural_Person;


create table Product(
    idProduct int not null auto_increment primary key,
    Product_Name varchar(45) not null,
    Category enum('Clothing', 'Eletronics', 'Toys', 'Appliances') not null,
    Product_Description varchar(100),
    Price float not null,
    Brand varchar(45) not null,
    Product_Code varchar(10) not null,
    Ratings float default 0
)
auto_increment=1;


create table Payment_Card(
    idPayment_Card int not null auto_increment primary key,
    Name_on_the_card varchar(45) not null,
    Card_Number char(16) not null,
    Expiration_Date date,
    ID enum('TIN', 'SSN') default 'SSN',
    ID_Number char(9) unique,
    Card_Type enum('Credit', 'Debit') default 'Credit'

)auto_increment=1;


create table Payment(
    idPayment int not null auto_increment primary key,
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    idPayment_Card int,
    Payment_Status enum('Approved', 'Declined', 'Processing') default 'Processing',
    Transaction_Number varchar(50) not null unique,
    Payment_Date datetime not null,
    Payment_Option enum('Money Transfer', 'Debit Card', 'Credit Card') default 'Credit Card',
    constraint fk_Payment_Card foreign key (idPayment_Card) references
Payment_Card(idPayment_Card)
)auto_increment=1;


create table Status_Details(
    idStatus_Details int not null auto_increment primary key,
    Shipping_Date date not null,
    Tracking_Code char(15) unique not null,
    Arrival_Estimate_Date date,
    Shipping_Company varchar(45)
);


create table Orders_Status(
     idOrder_Status int not null auto_increment primary key,
    Details enum('Processing', 'Canceled', 'Delivered') default 'Processing',
    Last_Update datetime not null,
    idOrder_Status_Details int,
    constraint fk_Order_Status_Details
                foreign key (idOrder_Status_Details)
        references Status_Details(idStatus_Details)
)
auto_increment=1;

create table Orders(
    idOrder int not null auto_increment primary key,
    idClient_Client int,
    idOrder_Status int,
    idPayment_Payment int,
    Delivery_Cost float,
    Taxes_and_Fees float,
    Discount float,
    Total_Cost float,
    Other_Requests enum('Cancelation', 'Exchange', 'Refund'),
    constraint fk_Order_Status foreign key (idOrder_Status) references
Orders_Status(idOrder_Status),
        constraint fk_Client_Client foreign key( idClient_Client) references Clients(idClient),
    constraint fk_Order_Payment foreign key (idPayment_Payment) references
Payment(idPayment)
) auto_increment=1;
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create table Order_has_Product(
    idOrders_Orders int,
    idProduct_Product int,
    Product_Quantity int default 1,
    Product_Status enum('Available', 'Unavailable') default 'Available',
    primary key (idOrders_Orders, idProduct_Product),
    constraint fk_Orders foreign key(idOrders_Orders) references Orders(idOrder),
    constraint fk_Product foreign key(idProduct_Product) references Product(idProduct)
);


create table Supplier(
    idSupplier int not null auto_increment primary key,
    Supplier_Name varchar(45) not null,
    Supplier_TIN char(9) not null  unique,
    Supplier_Phone_Number char(11) not null,
    Supplier_Email_Address varchar(45) not null,
        idSupplier_Address int,
    constraint fk_Supplier_Address foreign key(idSupplier_Address) references
Address(idAddress)
)
auto_increment=1;


create table Third_Party_Seller(
    idTP_Seller int not null auto_increment primary key,
    Seller_Name varchar(45) not null,
    Seller_ID enum('TIN', 'SSN') not null default 'TIN',
    Seller_ID_Number char(9) not null unique,
    Seller_Phone_Number char(11) not null,
    Seller_Email_Address varchar(45) not null,
    idTP_Seller_Address int,
    constraint fk_TP_Seller foreign key(idTP_Seller) references Address(idAddress),
    constraint unique_Seller_ID unique (Seller_ID)
)
auto_increment=1;


create table Warehouse(
     idWarehouse int not null primary key,
    idWarehouse_Address int,
    Phone_Number char(11),
    Email_Address varchar(45),
    constraint fk_Warehouse_Address foreign key (idWarehouse_Address) references
Address(idAddress)
);
```

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create table Supplier_has_Product(
    idSupplier_Supplier int,
    idProduct_Product int,
    Product_Quantity int default 1,
    primary key (idSupplier_Supplier, idProduct_Product),
    constraint fk_Supplier foreign key (idSupplier_Supplier) references Supplier(idSupplier),
    constraint fk_Supplier_Product foreign key (idProduct_Product) references
Product(idProduct)
);


create table Product_Seller(
    idTP_Seller int not null,
    idTP_Seller_Product  int not null,
    Product_Quantity int default 1,
    primary key (idTP_Seller, idTP_Seller_Product),
    constraint fk_TP_Seller_Seller foreign key (idTP_Seller) references
Third_Party_Seller(idTP_Seller),
    constraint fk_TP_Seller_Product foreign key (idTP_Seller_Product) references
Product(idProduct)
);
desc Product_Seller;


create table Product_Warehouse(
    idProduct_Product int,
    idWarehouse_Warehouse int,
    Product_Quantity int default 1,
    primary key (idProduct_Product, idWarehouse_Warehouse),
    constraint fk_Product_in_Warehouse foreign key (idProduct_Product) references
Product(idProduct),
    constraint fk_Warehouse foreign key (idWarehouse_Warehouse) references
Warehouse(idWarehouse)
);

show tables from ecommerce;
```