

SQL Script

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create database AIMS;

use AIMS;

create table Product(
    id int PRIMARY KEY AUTO_INCREMENT,
    category varchar(45) not null,
    title varchar(45) not null,
    price int not null,
    value int not null,
    quantity int not null,
    isSupportRushDelivery bool
);

create table Book(
    id int,
    authors varchar(45) not null,
    coverType varchar(45),
    publisher varchar(45) not null,
    publicationDate date
);

alter table Book add constraint fk_Book_Product foreign key(id) references Product(id);

create table CD(
    id int,
    artist varchar(45) not null,
    tracklist varchar(200) not null,
    recordLabel varchar(45) not null,
    genre varchar(45),
    releaseDate date
);

alter table CD add constraint fk_CD_Product foreign key(id) references Product(id);

create table DVD(
    id int,
    director varchar(45) not null,
    diskType varchar(45) not null,
    studio varchar(45) not null,
    subtitles varchar(45) not null,
    runtime int not null,
    language varchar(45) not null
);

alter table DVD add constraint fk_DVD_Product foreign key(id) references Product(id);

create table LP(
    id int,
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        artist varchar(45) not null,
        tracklist varchar(200) not null,
        recordLabel varchar(45) not null,
        genre varchar(45),
        releaseDate date
    );

alter table LP add constraint fk_LP_Product foreign key(id) references Product(id);

create table Cart(
    id int primary key auto_increment,
    subTotal int,
    total int
);

create table CartProduct(
    product_id int,
    cart_id int,
    quantity int not null,
    primary key(product_id, cart_id),
    foreign key(product_id) references Product(id),
    foreign key(cart_id) references Cart(id)
);

create table DeliveryInfo(
    id int primary key auto_increment,
    receiverName varchar(45) not null,
    phoneNumber char(11) not null,
    email varchar(45) not null,
    province varchar(45) not null,
    address varchar(100) not null,
    shippingMethod varchar(45) not null
);

create table RushDelivery(
    timeReceiver datetime,
    instruction varchar(100),
    deliveryInfoId int,
    foreign key (deliveryInfoId) references DeliveryInfo(id)
);

create table Orderr(
    id int primary key,
    shippingFee int,
    cartId int,
    deliveryInfoId int,
    foreign key(cartId) references Cart(id),
    foreign key(deliveryInfoId) references DeliveryInfo(id)
);

create table Card(
    id int primary key,
    cardNumber varchar(45) not null,
    cardHolderName varchar(45) not null,
    type varchar(45) not null,
    bank varchar(45),

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        cvvCode int,
        expirationDate date,
        issueDate date,
        email varchar(45),
        province varchar(45),
        address varchar(100)
    );

create table PaymentTransaction(
    id varchar(45) primary key,
    content varchar(100) not null,
    transaction datetime,
    amount int,
    cardId int,
    foreign key(cardId) references Card(id)
);

create table Invoice(
    id int primary key,
    totalAmount int,
    orderId int,
    paymentTransactionId varchar(45),
    foreign key(orderId) references Orderr(id),
    foreign key(paymentTransactionId) references PaymentTransaction(id)
);

CREATE INDEX fk_Order_DeeliveryInfo1_idx ON Orderr(deliveryInfoId);
CREATE INDEX fk_Order_Cart_idx ON Orderr(cartId);

CREATE INDEX fk_Cart_Product_idx ON CartProduct(product_id);
CREATE INDEX fk_Product_Cart_idx ON CartProduct(cart_id);

CREATE INDEX fk_Invoice_Order1_idx ON Invoice(orderId);

CREATE INDEX fk_PaymentTransaction_Card1_idx ON PaymentTransaction (cardId);
CREATE INDEX fk_PaymentTransaction_Invoice1_idx ON Invoice (paymentTransactionId);

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