**Product**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PID** | **Name** | **Description** | **Seller** | **Price** | **Prime Eligible** |

CREATE TABLE Product (

PID INTEGER IDENTITY(1,1) PRIMARY KEY,

Name VARCHAR(255) NOT NULL,

Description VARCHAR(255) NOT NULL,

Seller VARCHAR(255) NOT NULL,

Price DECIMAL(18, 2) NOT NULL,

Prime\_Elegable BIT NOT NULL

);

**Account**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Account ID** | **First Name** | **Last Name** | **Prime Member** | **Password** |

CREATE TABLE Account (

AccountID INTEGER IDENTITY(1,1) PRIMARY KEY,

First Name VARCHAR(255) NOT NULL,

Last Name VARCHAR(255) NOT NULL,

Password VARCHAR(255) NOT NULL,

Prime\_Member BIT NOT NULL

);

**Payment Type**

|  |  |
| --- | --- |
| **PTID** | **Type** |

CREATE TABLE Payment\_Type (

PTID INTEGER IDENTITY(1,1) PRIMARY KEY,

PTType VARCHAR(255) NOT NULL

);

**Payment Method**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Account ID** | **PMID** | **PTID** | **NameOnCard** | **PMCardNumber** | **PMExp** | **PMCVV** | **PMFavorite** |

CREATE TABLE Payment\_Method (

PMID INTEGER IDENTITY(1,1) PRIMARY KEY,

AccountID INTEGER FOREIGN KEY REFERENCES Account(AccountID),

PTID INTEGER FOREIGN KEY REFERENCES Payment\_Type(PTID),

NameOnCard VARCHAR(255) NULL,

CardNumber VARCHAR(16) NULL,

PMExp VARCHAR(5) NULL,

PMCvv VARCHAR(3) NULL,

PMFavorite BIT NOT NULL

);

**Address**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **AccountID** | **AddressID** | **Address** | **Street** | **City** | **State** | **Country** | **Zip** |

CREATE TABLE Address (

AddressID INTEGER IDENTITY(1,1) PRIMARY KEY,

AccountID INTEGER FOREIGN KEY REFERENCES Account(AccountID),

Address VARCHAR(255) NOT NULL,

Street VARCHAR(255) NOT NULL,

City VARCHAR(255) NOT NULL,

State VARCHAR(255) NOT NULL,

Country VARCHAR(255) NOT NULL,

Zip VARCHAR(255) NOT NULL,

);

**Watchlist**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Account ID** | **Name** | **Description** | **Total** | **PLID** |

CREATE TABLE Watchlist (

WID INTEGER IDENTITY(1,1) PRIMARY KEY,

AccountID INTEGER FOREIGN KEY REFERENCES Account(AccountID),

Name VARCHAR(255) NOT NULL,

Descrition VARCHAR(255) NOT NULL,

Total INTEGER NOT NULL,

PLID INTEGER FOREIGN KEY REFERENCES Product\_List(PLID),

);

**Recommendation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Account ID** | **PID** | **Relevance** | **Tags** | **NumberOfVeiws** |

CREATE TABLE Recommendation (

PID INTEGER FOREIGN KEY REFERENCES Product(PID),

AccountID INTEGER FOREIGN KEY REFERENCES Account(AccountID),

Relevance INTEGER NOT NULL,

Tags VARCHAR(255) NOT NULL,

Views INTEGER NOT NULL,

);

**Shopping Cart**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Account ID** | **SCID** | **Total** | **Prime Eligible** | **PLID** |

CREATE TABLE Shopping\_Cart (

SCID INTEGER IDENTITY(1,1) PRIMARY KEY,

AccountID INTEGER FOREIGN KEY REFERENCES Account(AccountID),

Total INTEGER NOT NULL,

Prime\_Eligible BIT NOT NULL,

PLID INTEGER FOREIGN KEY REFERENCES Product\_List(PLID),

);

**Product List**

|  |  |  |  |
| --- | --- | --- | --- |
| **Account ID** | **PLID** | **PID** | **Quantity** |

CREATE TABLE Product\_List (

PLID INTEGER IDENTITY(1,1) PRIMARY KEY,

AccountID INTEGER FOREIGN KEY REFERENCES Account(AccountID),

PID INTEGER FOREIGN KEY REFERENCES Product(PID),

Quantity INTEGER NOT NULL

);

**Product Order**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **AccountID** | **Order Number** | **Status** | **Total** | **PLID** | **AddressID** | **PMID** | **Timestamp** |

CREATE TABLE Product\_Order(

OrderNumber INTEGER IDENTITY(1,1) PRIMARY KEY,

AccountID INTEGER FOREIGN KEY REFERENCES Account(AccountID),

Status TINYINT NOT NULL,

Total INTEGER NOT NULL,

Time TIMESTAMP NOT NULL,

PLID INTEGER FOREIGN KEY REFERENCES Product\_List(PLID),

AddressID INTEGER FOREIGN KEY REFERENCES Address(AddressID),

PMID INTEGER FOREIGN KEY REFERENCES Payment\_Method(PMID)

);

**Viewed**

|  |  |  |  |
| --- | --- | --- | --- |
| **Account ID** | **PID** | **TimesViewed** | **Timestamp** |

CREATE TABLE Viewed (

PID INTEGER FOREIGN KEY REFERENCES Product(PID),

AccountID INTEGER FOREIGN KEY REFERENCES Account(AccountID),

Time TIMESTAMP NOT NULL

);

|  |  |  |  |
| --- | --- | --- | --- |
| List ID | Account ID | Product ID | Quantity |
| 1 | A | Legos | 5 |
| 1 | A | glasses | 1 |
| 2 | B | Cups | 3 |
| 5 | C | shirt | 1 |