CREATE TABLE [dbo].[Product] (

[ID] VARCHAR (100) NOT NULL,

[Name] NVARCHAR (MAX) NOT NULL,

[Category] NVARCHAR (MAX) NOT NULL,

[Price] DECIMAL (18, 2) NOT NULL,

[ManufactureDate] DATETIME2 (7) NOT NULL,

[Active] BIT NOT NULL,

CONSTRAINT [PK\_Product] PRIMARY KEY CLUSTERED ([ID] ASC)

);

CREATE TABLE [dbo].[UserAccount] (

[ID] VARCHAR (100) NOT NULL,

[FirstName] NVARCHAR (MAX) NOT NULL,

[LastName] NVARCHAR (MAX) NOT NULL,

[DateOfBirth] DATETIME2 (7) NOT NULL,

[Active] BIT NOT NULL,

CONSTRAINT [PK\_UserAccount] PRIMARY KEY CLUSTERED ([ID] ASC)

);

CREATE TABLE [dbo].[Order] (

[ID] VARCHAR (100) NOT NULL,

[OrderDate] DATETIME2 (7) NOT NULL,

[UserID] VARCHAR (100) NOT NULL,

[DeliveryAddress] NVARCHAR (255) NOT NULL,

CONSTRAINT [PK\_Order] PRIMARY KEY CLUSTERED ([ID] ASC),

CONSTRAINT [FK\_Order\_UserAccount\_UserID] FOREIGN KEY ([UserID]) REFERENCES [dbo].[UserAccount] ([ID]) ON DELETE CASCADE

);

GO

CREATE NONCLUSTERED INDEX [IX\_Order\_UserID]

ON [dbo].[Order]([UserID] ASC);

CREATE TABLE [dbo].[OrderLine] (

[ID] VARCHAR (100) NOT NULL,

[OrderID] VARCHAR (100) NOT NULL,

[ProductID] VARCHAR (100) NOT NULL,

[Quantity] DECIMAL (18, 2) NOT NULL,

CONSTRAINT [PK\_OrderLine] PRIMARY KEY CLUSTERED ([ID] ASC),

CONSTRAINT [FK\_OrderLine\_Order\_OrderID] FOREIGN KEY ([OrderID]) REFERENCES [dbo].[Order] ([ID]) ON DELETE CASCADE,

CONSTRAINT [FK\_OrderLine\_Product\_ProductID] FOREIGN KEY ([ProductID]) REFERENCES [dbo].[Product] ([ID]) ON DELETE CASCADE

);

GO

CREATE NONCLUSTERED INDEX [IX\_OrderLine\_OrderID]

ON [dbo].[OrderLine]([OrderID] ASC);

GO

CREATE NONCLUSTERED INDEX [IX\_OrderLine\_ProductID]

ON [dbo].[OrderLine]([ProductID] ASC);

CREATE TABLE [dbo].[WarehouseStock] (

[ID] VARCHAR (100) NOT NULL,

[ProductID] VARCHAR (100) NOT NULL,

[AvailableQty] DECIMAL (18, 2) NOT NULL,

CONSTRAINT [PK\_WarehouseStock] PRIMARY KEY CLUSTERED ([ID] ASC),

CONSTRAINT [FK\_WarehouseStock\_Product\_ProductID] FOREIGN KEY ([ProductID]) REFERENCES [dbo].[Product] ([ID]) ON DELETE CASCADE

);

GO

CREATE NONCLUSTERED INDEX [IX\_WarehouseStock\_ProductID]

ON [dbo].[WarehouseStock]([ProductID] ASC);