# Create Database

| CREATE DATABASE MasuyaDummyDB; |
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# Create Table

## Table Product

| CREATE TABLE Products (  ProductID INT IDENTITY(1,1) PRIMARY KEY,  ProductCode VARCHAR(20) UNIQUE NOT NULL,  ProductName VARCHAR(100) NOT NULL,  Price DECIMAL(18,2) NOT NULL CHECK (Price >= 0),  Stock INT NOT NULL CHECK (Stock >= 0),  CONSTRAINT CK\_ProductCode\_Valid CHECK (ProductCode NOT LIKE '%[^a-zA-Z0-9]%')  ); |
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| ALTER TABLE TransactionLine ADD CONSTRAINT FK\_Line\_Product FOREIGN KEY (ProductID) REFERENCES Products(ID) ON DELETE NO ACTION; |
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## Table Customers

| CREATE TABLE Customers (  CustomerID INT IDENTITY(1,1) PRIMARY KEY,  CustomerCode VARCHAR(20) UNIQUE NOT NULL,  CustomerName VARCHAR(100) NOT NULL,  FullAddress TEXT NOT NULL,  Province VARCHAR(50) NOT NULL,  City VARCHAR(50) NOT NULL,  District VARCHAR(50) NOT NULL,  SubDistrict VARCHAR(50) NOT NULL,  PostalCode VARCHAR(10) NOT NULL,  CONSTRAINT CK\_CustomerCode\_Valid CHECK (CustomerCode NOT LIKE '%[^a-zA-Z0-9]%') ); |
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| ALTER TABLE TransactionHeader ADD CONSTRAINT FK\_Header\_Customer FOREIGN KEY (CustomerID) REFERENCES Customers(ID) ON DELETE NO ACTION; |
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## Table Transaction Header

| CREATE TABLE TransactionHeader (  TransactionID INT IDENTITY(1,1) PRIMARY KEY,  InvoiceNumber VARCHAR(30) UNIQUE NOT NULL, -- e.g. INV/2507/0001  CustomerID INT NOT NULL,  InvoiceDate DATE NOT NULL,  Total DECIMAL(18,2) NOT NULL CHECK (Total >= 0),  FOREIGN KEY (CustomerID) REFERENCES Customers(ID) ); |
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| ALTER TABLE TransactionHeader ADD Status VARCHAR(10) NOT NULL DEFAULT 'draft'; |
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## Table Transaction Line

| CREATE TABLE TransactionLine (  TransactionLineID INT IDENTITY(1,1) PRIMARY KEY,  TransactionID INT NOT NULL,  ProductID INT NOT NULL,  Quantity INT NOT NULL CHECK (Quantity > 0),  Price DECIMAL(18,2) NOT NULL CHECK (Price >= 0),  Disc1 DECIMAL(5,2) NOT NULL DEFAULT 0 CHECK (Disc1 BETWEEN 0 AND 100),  Disc2 DECIMAL(5,2) NOT NULL DEFAULT 0 CHECK (Disc2 BETWEEN 0 AND 100),  Disc3 DECIMAL(5,2) NOT NULL DEFAULT 0 CHECK (Disc3 BETWEEN 0 AND 100),  NetPrice DECIMAL(18,2) NOT NULL CHECK (NetPrice >= 0),  Amount DECIMAL(18,2) NOT NULL CHECK (Amount >= 0),  FOREIGN KEY (TransactionID) REFERENCES TransactionHeader(TransactionID),  FOREIGN KEY (ProductID) REFERENCES Products(ProductID) ); |
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