**SQL Database For Inventory Management System**

**About:**

The inventory management system is designed to help businesses keep track of their inventory levels and transactions. The system includes several tables to store information about the items in inventory, the suppliers that provide those items, the customers who place orders for those items, and the orders themselves.

**SQL Code:**

CREATE TABLE Items (

ItemID int PRIMARY KEY,

ItemName varchar(255) NOT NULL,

Description varchar(255),

Quantity int,

Price decimal(10, 2),

SupplierID int,

FOREIGN KEY (SupplierID) REFERENCES Suppliers(SupplierID)

);

CREATE TABLE Suppliers (

SupplierID int PRIMARY KEY,

SupplierName varchar(255) NOT NULL,

Address varchar(255),

Phone varchar(20)

);

CREATE TABLE Customers (

CustomerID int PRIMARY KEY,

CustomerName varchar(255) NOT NULL,

Address varchar(255),

Phone varchar(20)

);

CREATE TABLE Orders (

OrderID int PRIMARY KEY,

OrderDate datetime,

CustomerID int,

FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)

);

CREATE TABLE OrderItems (

OrderID int,

ItemID int,

Quantity int,

PRIMARY KEY (OrderID, ItemID),

FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),

FOREIGN KEY (ItemID) REFERENCES Items(ItemID)

);

CREATE TABLE Transactions (

TransactionID int PRIMARY KEY,

TransactionDate datetime,

ItemID int,

Quantity int,

TransactionType varchar(10)

);

**ERD:**

Diagram

Description automatically generated

**Link to ERD:**

https://lucid.app/publicSegments/view/20afdcbe-4709-452a-9595-406b8f5dfdab