CREATE TABLE Part (

PartID INTEGER NOT NULL,

Name VARCHAR(30) NOT NULL,

UnitCost FLOAT NOT NULL CHECK(UnitCost>0),

CONSTRAINT part\_pk PRIMARY KEY (PartID),

);

CREATE TABLE Technician (

TechnicianID INTEGER NOT NULL,

Name VARCHAR(30) NOT NULL,

Address VARCHAR(50),

CONSTRAINT technician\_pk PRIMARY KEY (TechnicianID)

);

CREATE TABLE Order (

OrderID INTEGER NOT NULL,

CustomerID INTEGER NOT NULL,

PartID INTEGER NOT NULL,

TechnicianID INTEGER NOT NULL,

ExactDate DATE,

CONSTRAINT order\_pk PRIMARY KEY (OrderID),

CONSTRAINT order\_customer\_fk FOREIGN KEY (CustomerID) REFERENCES Customer,

CONSTRAINT order\_part\_fk FOREIGN KEY (PartID) REFERENCES Part,

CONSTRAINT order\_technician\_fk FOREIGN KEY (TechnicianID) REFERENCES Technician,

);

CREATE TABLE RequiredPart (

OrderID INTEGER NOT NULL,

PartID INTEGER NOT NULL,

CONSTRAINT requiredpart\_pk PRIMARY KEY (OrderID, PartID),

CONSTRAINT requiredpart\_order\_fk FOREIGN KEY (OrderID) REFERENCES Order,

CONSTRAINT requiredpart\_part\_fk FOREIGN KEY (PartID) REFERENCES Part

);

CREATE TABLE Customer (

CustomerID INTEGER NOT NULL,

Name VARCHAR(30) NOT NULL,

Address VARCHAR(50) NOT NULL,

CONSTRAINT customer\_pk PRIMARY KEY (CustomerID)

);

CREATE TABLE Supplier (

SupplierID INTEGER NOT NULL,

Name VARCHAR(30) NOT NULL,

Address VARCHAR(50) NOT NULL,

CONSTRAINT supplier\_pk PRIMARY KEY (SupplierID)

);

CREATE TABLE SupplyShipment (

SupplyID INTEGER NOT NULL,

SupplierID INTEGER NOT NULL,

PartID INTEGER NOT NULL,

CONSTRAINT supply\_shipment\_pk PRIMARY KEY (SupplyID),

CONSTRAINT supply\_shipment\_supplier\_fk FOREIGN KEY (SupplierID) REFERENCES Supplier,

CONSTRAINT supply\_shipment\_part\_fk FOREIGN KEY (PartID) REFERENCES Part

);

CREATE TABLE Assembles (

TechnicianID INTEGER NOT NULL,

PartID INTEGER NOT NULL,

CONSTRAINT assembles\_pk PRIMARY KEY (TechnicianID, PartID),

CONSTRAINT assembles\_technician\_fk FOREIGN KEY (TechnicianID) REFERENCES Technician,

CONSTRAINT assembles\_part\_fk FOREIGN KEY (PartID) REFERENCES Part

);

CREATE TABLE Ships (

SupplierID INTEGER NOT NULL,

SupplyID INTEGER NOT NULL,

CONSTRAINT ships\_pk PRIMARY KEY (SupplierID, SupplyID),

CONSTRAINT ships\_supplier\_fk FOREIGN KEY (SupplierID) REFERENCES Supplier,

CONSTRAINT ships\_supply\_fk FOREIGN KEY (SupplyID) REFERENCES Supply

);

CREATE TABLE Contains (

PartID INTEGER NOT NULL,

SupplyID INTEGER NOT NULL,

CONSTRAINT contains\_pk PRIMARY KEY (PartID, SupplyID),

CONSTRAINT contains\_part\_fk FOREIGN KEY (PartID) REFERENCES Part,

CONSTRAINT contains\_supply\_fk FOREIGN KEY (SupplyID) REFERENCES Supply

);

CREATE TABLE BOM (

CompositePart VARCHAR(30),

ComponentPart VARCHAR(30),

CONSTRAINT bom\_pk PRIMARY KEY (CompositePart, ComponentPart)

);

CREATE TABLE Uses (

TechnicianID INTEGER NOT NULL,

OrderID INTEGER NOT NULL,

CONSTRAINT uses\_pk PRIMARY KEY (TechnicianID, OrderID),

CONSTRAINT uses\_technician\_fk FOREIGN KEY (TechnicianID) REFERENCES Technician,

CONSTRAINT uses\_order\_fk FOREIGN KEY (OrderID) REFERENCES Order

);

CREATE TABLE For (

PartID INTEGER NOT NULL,

OrderID INTEGER NOT NULL,

CONSTRAINT for\_pk PRIMARY KEY (PartID, OrderID),

CONSTRAINT for\_part\_fk FOREIGN KEY (PartID) REFERENCES Part,

CONSTRAINT for\_order\_fk FOREIGN KEY (OrderID) REFERENCES Order

);

CREATE TABLE Places (

CustomerID INTEGER NOT NULL,

OrderID INTEGER NOT NULL,

CONSTRAINT places\_pk PRIMARY KEY (CustomerID, OrderID),

CONSTRAINT places\_customer\_fk FOREIGN KEY (CustomerID) REFERENCES Customer,

CONSTRAINT places\_order\_fk FOREIGN KEY (OrderID) REFERENCES Order

);