```
DROP DATABASE IF EXISTS CoffeeProduction;

-- Create database
CREATE DATABASE CoffeeProduction;
USE CoffeeProduction;

-- Create Equipment table
CREATE TABLE Equipment (
    EquipmentID INT PRIMARY KEY,
    BatchID INT,
    Type VARCHAR(255),
    PurchaseDate DATE,
    MaintenanceSchedule DATETIME,
    Status VARCHAR(50),
    LastMaintenanceDate DATE
);

-- Create Roasting Batches Table
CREATE TABLE RoastingBatches (
    BatchID INT PRIMARY KEY,
    OrderID INT,
    EquipmentID INT,
    BeanBatchID INT,
    RoastDate DATE,
    BatchSize INT,
    RoastType INT
);

-- Create Batch Size table
CREATE TABLE BatchSize (
    BatchSizeID INT PRIMARY KEY,
    Temperature FLOAT,
    RoR FLOAT,
    Airflow FLOAT,
    EndingTemperature FLOAT,
    BatchID INT
);

-- Customers table split normalization: Customer Address
CREATE TABLE CustomerAddress (
    AddressID INT PRIMARY KEY,
    CustomerState VARCHAR(255),
    CustomerCity VARCHAR(255),
    CustomerStreet VARCHAR(255),
    CustomerNumber VARCHAR(20),
    CustomerCountry VARCHAR(255)
);

CREATE TABLE Customers (
    CustomerID INT PRIMARY KEY,
    OrderID INT,
    CustomerName VARCHAR(255),
    CustomerEmail VARCHAR(255),
    CustomerPhoneNumber VARCHAR(20),
    CustomerType VARCHAR(50),
    FavoriteBean VARCHAR(255),
    FavoriteRoast VARCHAR(255),
    OrderFrequency INT,
    AddressID INT,
```

```
    FOREIGN KEY (AddressID) REFERENCES CustomerAddress(AddressID)
);

-- Delivery Trucks table and Truck Types normalization
CREATE TABLE TruckTypes (
    TruckTypeID INT PRIMARY KEY,
    DeliveryRegion VARCHAR(255)
);

CREATE TABLE DeliveryTrucks (
    TruckID INT PRIMARY KEY,
    SupplierID INT,
    OrderID INT,
    TruckTypeID INT,
    MaintenanceStatus VARCHAR(50),
    Capacity INT,
    LastServiceDate DATE,
    FOREIGN KEY (TruckTypeID) REFERENCES TruckTypes(TruckTypeID)
);

-- Create orders
CREATE TABLE Orders (
    OrderID INT PRIMARY KEY,
    CustomerID INT,
    BatchID INT,
    BeanBatchID INT,
    OrderDate DATE,
    OrderAmount FLOAT,
    DeliveryStatus VARCHAR(50),
    PaymentStatus VARCHAR(50),
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);

-- Create Bean Batches
CREATE TABLE BeanBatches (
    BeanBatchID INT PRIMARY KEY,
    SupplierID INT,
    BatchID INT,
    OriginCountry VARCHAR(255),
    BeanType VARCHAR(255),
    DateOrdered DATE,
    DeliveryDate DATE,
    IsPaid BOOLEAN,
    QualityRating INT,
    PurchasePrice FLOAT,
    Quantity INT,
    RoastStatus VARCHAR(50)
);

-- Create Delivery Trucks-Suppliers
CREATE TABLE TruckSuppliers (
    TruckID INT,
    SupplierID INT,
    PRIMARY KEY (TruckID, SupplierID)
);

CREATE TABLE Suppliers (
    SupplierID INT PRIMARY KEY,
    TruckID INT,
```

```
    BeanBatchID INT,
    SupplierName VARCHAR(255),
    SupplierEmail VARCHAR(255),
    SupplierPhone VARCHAR(20),
    Country VARCHAR(255),
    PaymentsDue BOOLEAN,
    DeliveryTime DATETIME,
    Rating INT,
    SupplierCategory VARCHAR(255),
    FOREIGN KEY (TruckID) REFERENCES DeliveryTrucks(TruckID)
);
```