USE DEM;

CREATE TABLE Customers (

customer\_id INT PRIMARY KEY,

customer\_name VARCHAR(255) NOT NULL

);

CREATE TABLE RequestStatuses (

status\_id INT PRIMARY KEY,

status\_name VARCHAR(50) NOT NULL

);

CREATE TABLE Devices (

device\_id INT PRIMARY KEY,

device\_name VARCHAR(255) NOT NULL

);

CREATE TABLE Problems (

problem\_id INT PRIMARY KEY,

problem\_type VARCHAR(255) NOT NULL,

problem\_description TEXT NOT NULL

);

CREATE TABLE ServiceRequests (

request\_id INT PRIMARY KEY,

request\_date DATE NOT NULL,

customer\_id INT NOT NULL,

status\_id INT NOT NULL,

FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id),

FOREIGN KEY (status\_id) REFERENCES RequestStatuses(status\_id)

);

CREATE TABLE Request\_Device (

request\_id INT NOT NULL,

device\_id INT NOT NULL,

PRIMARY KEY (request\_id, device\_id),

FOREIGN KEY (request\_id) REFERENCES ServiceRequests(request\_id),

FOREIGN KEY (device\_id) REFERENCES Devices(device\_id)

);

CREATE TABLE Request\_Problem (

request\_id INT NOT NULL,

problem\_id INT NOT NULL,

PRIMARY KEY (request\_id, problem\_id),

FOREIGN KEY (request\_id) REFERENCES ServiceRequests(request\_id),

FOREIGN KEY (problem\_id) REFERENCES Problems(problem\_id)

);

