CREATE TABLE ZipCodes

(

    zipcode    VARCHAR(12) NOT NULL,

    City       VARCHAR(30),

    State      VARCHAR(4),

    CONSTRAINT pk\_zipcodes

          PRIMARY KEY (zipcode)

)

CREATE TABLE Customer

(

    CustomerID   VARCHAR(10) NOT NULL,

    FirstName    VARCHAR(30),

    LastName     VARCHAR(30),

    Phone\_Number VARCHAR(15),

    Street       VARCHAR(30),

    ZipCode      VARCHAR(12),

    CONSTRAINT pk\_customer

          PRIMARY KEY (CustomerID)

)

CREATE TABLE Computer

(

    CustomerID       VARCHAR(10) NOT NULL,

    ComputerID       VARCHAR(10) NOT NULL,

    Manufacturer     VARCHAR(30),

    Model            VARCHAR(30),

    Year             Integer,

    Operating\_System VARCHAR(30),

    Serial\_Number    INTEGER,

    CONSTRAINT pk\_Computer

          PRIMARY KEY (ComputerID)

)

CREATE TABLE Appointment

(

    AppointmentID         VARCHAR(10) NOT NULL,

    Appointment\_DateTime  DATE,

    ComputerID            VARCHAR(10) NOT NULL,

    CONSTRAINT pk\_appointment

          PRIMARY KEY (AppointmentID)

)

 CREATE TABLE Employee

(

    EmployeeID     VARCHAR(10) NOT NULL,

    FirstName      VARCHAR(30),

    LastName       VARCHAR(30),

    PayRate        NUMBER,

     CONSTRAINT pk\_employee

       PRIMARY KEY (EmployeeID)

)

 CREATE TABLE RepairService

(

    ServiceID            VARCHAR(10) NOT NULL,

    Service\_Description  VARCHAR(50),

    Service\_Duration     INTEGER,

    ServicePrice         NUMBER,

    CONSTRAINT pk\_RepairService

        PRIMARY KEY (ServiceID)

)

 CREATE TABLE ServiceItem\_Provided

(

    AppointmentID         VARCHAR(10) NOT NULL,

    ServiceID             VARCHAR(10) NOT NULL,

    EmployeeID            VARCHAR(10) NOT NULL,

    LineItem\_Number       INTEGER NOT NULL,

    Part\_Number           INTEGER,

    Quantity              NUMBER,

    Extended\_Price        NUMBER,

    Labor\_Hours           NUMBER,

    CONSTRAINT pk\_ServiceItem\_Provided

        PRIMARY KEY (AppointmentID, LineItem\_Number)

)

ALTER TABLE Customer

   ADD CONSTRAINT fk\_customer\_zipcodes

     FOREIGN KEY (ZipCode)

        REFERENCES ZipCodes (ZipCode)

ALTER TABLE Computer

   ADD CONSTRAINT fk\_computer\_customer

     FOREIGN KEY (CustomerID)

        REFERENCES Customer (CustomerID)

ALTER TABLE Appointment

   ADD CONSTRAINT fk\_computer\_appointment

     FOREIGN KEY (ComputerID)

        REFERENCES Computer (ComputerID)

ALTER TABLE ServiceItem\_Provided

   ADD CONSTRAINT fk\_ServiceItem\_Provided\_Service

     FOREIGN KEY (ServiceID)

        REFERENCES RepairService (ServiceID)

ALTER TABLE ServiceItem\_Provided

   ADD CONSTRAINT fk\_ServiceItem\_Provided\_Employee

     FOREIGN KEY (EmployeeID)

        REFERENCES Employee (EmployeeID)

ALTER TABLE ServiceItem\_Provided

   ADD CONSTRAINT fk\_ServiceItem\_Provided\_Appointment

     FOREIGN KEY (AppointmentID)

        REFERENCES Appointment (AppointmentID)

INSERT INTO ZipCodes VALUES ('11426', 'Bellerose', 'NY');

INSERT INTO ZipCodes VALUES ('11425', 'Floral Park','NY');

INSERT INTO ZipCodes VALUES ('11423’, 'Bloomberg', 'NY');

INSERT INTO ZipCodes VALUES ('11422', 'Blackwood', 'NY');

INSERT INTO ZipCodes VALUES ('11421', 'Breakneck', 'NY');

INSERT INTO Customer VALUES ('C101', 'El', 'Fanny', '201-222-2222', '90 Brampton Rd', '11426');

INSERT INTO Customer VALUES ('C102', 'Ashwarya', 'Rai', '201-222-3333', '70 Valley Rd', '11425');

INSERT INTO Customer VALUES ('C103', 'Frederic', 'Douglas', '201-222-2222', '71 Smith St','11423');

INSERT INTO Customer VALUES ('C104', 'Goldie', 'Veera', '201-222-4321', '54 Ironwill Ln', '11422');

INSERT INTO Customer VALUES ('C105', 'Hamilton', 'Alexander', '201-222-4545', '222 222nd St', '11421');

INSERT INTO Customer VALUES ('C106', 'Josie', 'Davis', '201-333-6789', '420 Bluejazz Ave', '11421');

INSERT INTO Customer VALUES ('C107', 'Farlo', 'Teri', '201-333-4242', '9120 Main St', '11426');

INSERT INTO Customer VALUES ('C108', 'Lauren', 'Simon', '201-444-1313', '23 MadMax Rd', '11423');

 INSERT INTO Computer VALUES ('C101','CE111', 'Brampton', 'M101', '1999', 'Linux', '01535');

INSERT INTO Computer VALUES ('C102', 'CE222', 'Rexdale', 'M132', '2001', 'Linux', '01525');

INSERT INTO Computer VALUES ('C103', 'CE333',  'Apple', 'M22', '2002', 'Apple','31523');

INSERT INTO Computer VALUES ('C104', 'CE444',  'Samsung', 'M3120', '2001', 'Windows 10', '91522');

INSERT INTO Computer VALUES ('C105', 'CE555',  'Intel', 'M420', '2004', 'Windows 9', '61521');

INSERT INTO Computer VALUES ('C106', 'CE666',  'HP', 'M666', '2005', 'Windows 9', '01521');

INSERT INTO Computer VALUES ('C107', 'CE777',  'Dell', 'M421', '2002', 'Windows 9', '01526');

INSERT INTO Computer VALUES ('C108', 'CE888',  'Lenovo', 'M399', '2003', 'Windows 9', '61523');

INSERT INTO RepairService VALUES ('SV101', 'Broken Screen', 1, 222.99);

INSERT INTO RepairService VALUES ('SV102', 'Liquid Damage', 3, 323.99);

INSERT INTO RepairService VALUES ('SV103', 'Overheating', 20, 1999.99);

INSERT INTO RepairService VALUES ('SV104', 'Wrong OS installed', 6, 70.99);

INSERT INTO RepairService VALUES ('SV105', 'Throttling Problem', 9, 56.99);

INSERT INTO RepairService VALUES ('SV106', 'Windows 9 problem', 15, 99.99);

INSERT INTO Employee VALUES ('E100', 'Evan', 'Kim', 18);

INSERT INTO Employee VALUES ('E101', 'Garrick', 'Chan', 22);

INSERT INTO Employee VALUES ('E103', 'Kevin', 'Tanner', 20);

INSERT INTO Employee VALUES ('E107', 'Larry', 'Bird', 18);

INSERT INTO Employee VALUES ('E110', 'Peter', 'Murphy', 23);

INSERT INTO Employee VALUES ('E112', 'Wayne', 'Wade', 23);

 INSERT INTO Appointment VALUES ('A100', '05/15/2018 09:45:00 AM', 'CE111');

INSERT INTO Appointment VALUES ('A101', '07/01/2018 11:30:00 AM', 'CE222');

INSERT INTO Appointment VALUES ('A103', '09/08/2018 12:15:00 PM', 'CE222');

INSERT INTO Appointment VALUES ('A105', '11/19/2018 03:15:00 PM', 'CE333');

INSERT INTO Appointment VALUES ('A107', '02/11/2019 05:30:00 PM', 'CE666');

INSERT INTO Appointment VALUES ('A108', '05/23/2019 09:30:00 AM', 'CE444');

INSERT INTO Appointment VALUES ('A115', '06/21/2019 03:15:00 PM', 'CE888');

INSERT INTO Appointment VALUES ('B102', '08/21/2019 02:00:00 PM', 'CE555');

INSERT INTO Appointment VALUES ('B110', '11/12/2019 01:30:00 PM', 'CE777');

INSERT INTO ServiceItem\_Provided VALUES ('A100', 'SV104', 'E101' ,7 , 50, 2, 55.50, 2.5);

INSERT INTO ServiceItem\_Provided VALUES ('A101', 'SV102', 'E101', 8, 55, 3, 25.75, 2);

INSERT INTO ServiceItem\_Provided VALUES ('A103', 'SV101', 'E103', 12, 45, 2, 30.35, 3.0);

INSERT INTO ServiceItem\_Provided VALUES ('A105', 'SV104', 'E103', 9, 50, 1, 60.00, 2.5);

INSERT INTO ServiceItem\_Provided VALUES ('A107', 'SV102', 'E107', 10, 60, 2, 42.00, 4);

INSERT INTO ServiceItem\_Provided VALUES ('A108', 'SV105', 'E110', 8, 40, 1, 17.00, 3.0);

INSERT INTO ServiceItem\_Provided VALUES ('A115', 'SV105', 'E110', 11, 45, 2, 23.00, 2);

INSERT INTO ServiceItem\_Provided VALUES ('B102', 'SV102', 'E100', 12, 55, 3, 33.50, 3.5);

INSERT INTO ServiceItem\_Provided VALUES ('B110', 'SV104', 'E112', 10, 50, 2, 56.30, 2.5);