```
--DDL Used to great table--
2
    CREATE TABLE CommunicationType (
3
        cmType
                   VARCHAR(42),
4
        PRIMARY KEY (cmType)
5
    );
7
    CREATE TABLE Customer (
8
        CID
                        INT NOT NULL,
9
        cFirstName
                       VARCHAR(42),
                    VARCHAR(100),
10
       cLastName
11
       cDateOfBirth DATE,
12
       cPhoneNumber VARCHAR(15),
13
        cEmail
                      VARCHAR(47),
14
        PRIMARY KEY (CID),
15
        INDEX (cFirstName),
16
        INDEX (cLastName),
17
        INDEX (cEmail)
18 );
19
20
    CREATE TABLE ReferralBenefitHistory (
21
        cID
                    INT NOT NULL,
22
        rBenefit
                   VARCHAR (50) NOT NULL,
23
       rDate DATE NOT NULL,
24
        rFlaq
                   VARCHAR (50),
25
        PRIMARY KEY (cID, rBenefit, rDate),
26
        FOREIGN KEY (cID) REFERENCES Customer (cID)
27
   );
28 CREATE TABLE Prospective (
29
                       INT NOT NULL,
30
        pReferralName
                        VARCHAR(100),
31
        pDeadFlag
                       TINYINT,
32
        PRIMARY KEY (CID),
33
        FOREIGN KEY (cID) REFERENCES Customer (cID)
34
   );
35
36 CREATE TABLE PromotionContact (
37
     cID INT NOT NULL,
        pcDate DATE NOT NULL,
38
39
        pcTime TIME,
40
        cmType VARCHAR(42),
41
        PRIMARY KEY (cID, pcDate),
42
        FOREIGN KEY (cID) REFERENCES Prospective (cID),
43
        FOREIGN KEY (cmType) REFERENCES CommunicationType (cmType)
44
   );
45
46 CREATE TABLE Current (
47
                       INT NOT NULL,
48
        cJoinedDate
                      DATE,
49
        PRIMARY KEY (CID),
50
        FOREIGN KEY (cID) REFERENCES Customer (cID)
51
   );
52
53
    CREATE TABLE ZIPLocation (
54
        zZIPCode
                            VARCHAR(10) NOT NULL,
55
        zCity
                            VARCHAR(100) NOT NULL,
56
        zState
                            VARCHAR(42) NOT NULL,
57
        PRIMARY KEY (zZIPCode)
58
   );
59
60
    CREATE TABLE Address (
61
        cID INT NOT NULL,
62
        aType
                    VARCHAR(42),
        zZIPCode VARCHAR(10),
63
        aAddress VARCHAR(100),
64
        PRIMARY KEY (cID, aType),
65
        FOREIGN KEY (cID) REFERENCES Current (cID),
66
```

```
67
                     FOREIGN KEY (zZIPCode) REFERENCES ZIPLocation(zZIPCode)
   68
            );
   69
  70
          CREATE TABLE Steady (
  71
                    CID
                                                         INT NOT NULL,
  72
                     sLoyaltyPoints INT,
  73
                     PRIMARY KEY (CID),
  74
                     FOREIGN KEY (CID) REFERENCES Current (CID)
  75
            );
  76
  77
             CREATE TABLE Premier (
  78
                                                INT NOT NULL,
  79
                     pAnnualFee DECIMAL(10,2) UNSIGNED,
  80
                     PRIMARY KEY (CID),
   81
                     FOREIGN KEY (CID) REFERENCES Current (CID)
  82
          );
  83
  84 CREATE TABLE PriceIncrease (
  85
                     cID
                                                                 INT NOT NULL,
  86
                     piPercentIncrease
                                                                 DOUBLE,
   87
                     piReason
                                                                 VARCHAR(1701),
  88
                     PRIMARY KEY (CID),
  89
                     FOREIGN KEY (cID) REFERENCES Premier (cID)
  90 );
  91
  92
          CREATE TABLE VehicleFamily (
  93
              vfID INT NOT NULL,
  94
                    vfMake VARCHAR(42),
  95
                     vfModel VARCHAR(42),
  96
                     vfYear YEAR,
                     PRIMARY KEY (vfID),
  97
  98
                     INDEX (vfMake),
  99
                     INDEX (vfModel)
100 );
101 CREATE TABLE MaintainPackage (
102
                     mpID INT NOT NULL,
103
                     mpName VARCHAR(128) NOT NULL,
104
                     mpDescription VARCHAR(1337),
105
                     PRIMARY KEY (mpID)
106 );
107 CREATE TABLE Vehicle (
108
               vVIN
                                                                                   CHAR(17) NOT NULL,
109
                     vMileage
                                                                                   MEDIUMINT UNSIGNED NOT NULL,
110
                                                                                  INT NOT NULL,
                     CID
111
                  vExpectedMileageThisYear MEDIUMINT UNSIGNED,
112
                  vRoutineServices
                                                                               INT(100) NOT NULL,
          PRIMARY KEY (VVIN),

FOREIGN KEY (CID) REFERENCES Current (CID),

FOREIGN KEY (VfID) REFERENCES Volume Toperon Toperon
113
114
115
116
                     FOREIGN KEY (vfID) REFERENCES VehicleFamily (vfID),
117
                    FOREIGN KEY (vRoutineServices) REFERENCES MaintainPackage (mpID)
118 );
119
120 CREATE TABLE Employee (
121
                     eID INT NOT NULL,
122
                     eName
                                               VARCHAR(420),
                     eSalary DECIMAL(10,2) UNSIGNED,
123
124
                     eHiredDate DATE,
                     PRIMARY KEY (eID)
125
          );
126
127
128 CREATE TABLE Technician (
129
                  eID INT NOT NULL,
130
                     PRIMARY KEY (eID),
                     FOREIGN KEY (eID) REFERENCES Employee (eID)
131
132
             );
```

```
133
134
    CREATE TABLE Mechanic (
135
         eID INT NOT NULL,
136
         PRIMARY KEY (eID),
137
         FOREIGN KEY (eID) REFERENCES Employee (eID)
138
    );
139
140 CREATE TABLE TrainingSkill (
141
         tsTrainerID INT NOT NULL,
142
                        INT NOT NULL,
        tsTraineeID
143
        tsStartDate
                       DATE,
                      DATE,
144
        tsEndDate
        tsSkillTrained VARCHAR(42),
145
146
         PRIMARY KEY (tsTrainerID, tsTraineeID, tsStartDate, tsEndDate),
147
         FOREIGN KEY (tsTrainerID) REFERENCES Mechanic (eID),
148
         FOREIGN KEY (tsTraineeID) REFERENCES Mechanic (eID),
149
         FOREIGN KEY (tsSkillTrained) REFERENCES Skillset (ssName)
150 );
151
152
     CREATE TABLE MasteryLevel (
153
         mlLevel INT UNSIGNED NOT NULL,
154
         PRIMARY KEY (mlLevel),
155
         CONSTRAINT CHK mlLevel CHECK (mlLevel>=1 AND mlLevel<=10)
156
    );
157
158
    CREATE TABLE Skillset (
159
         ssName
                         VARCHAR(42),
160
         ssDescription
                       VARCHAR(1701),
161
         PRIMARY KEY (ssName)
162 );
163
164
    CREATE TABLE SkillsetLine (
165
     eID
                        INT NOT NULL,
166
         ssName
                         VARCHAR(42),
167
         slMasteryLevel INT UNSIGNED NOT NULL,
168
         PRIMARY KEY (eID, ssName),
169
         FOREIGN KEY (slMasteryLevel) REFERENCES MasteryLevel (mlLevel),
170
         FOREIGN KEY (eID) REFERENCES Mechanic (eID),
171
         FOREIGN KEY (ssName) REFERENCES Skillset (ssName)
172
    );
173
174
     CREATE TABLE AppointmentStatus (
175
         aStatus VARCHAR(42),
176
         PRIMARY KEY (aStatus)
177
    );
178
179 CREATE TABLE Appointment (
180
      vVIN CHAR(17) NOT NULL,
181
         aDate DATE,
182
         aTime TIME,
183
         aExpectedTime TIME,
184
         aStatus VARCHAR(42),
185
         PRIMARY KEY (vVIN, aDate),
         FOREIGN KEY (aStatus) REFERENCES AppointmentStatus (aStatus),
186
         FOREIGN KEY (vVIN) REFERENCES Vehicle(vVIN)
187
188
    );
189
190 CREATE TABLE MaintainOrder (
191
        moID INT NOT NULL,
192
         vVIN CHAR(17),
193
         moWrittenBy INT NOT NULL,
194
         PRIMARY KEY (moID),
195
         FOREIGN KEY (vVIN) REFERENCES Vehicle (vVIN),
196
         FOREIGN KEY (moWrittenBy) REFERENCES Technician(eID),
197
     );
198
```

```
199 CREATE TABLE MaintainItem(
200
      miID INT NOT NULL,
201
         miSkill VARCHAR (50) NOT NULL,
         miName VARCHAR (50),
202
203
         miBuyInPrice DECIMAL (10,2) UNSIGNED,
204
         miCost DECIMAL(10,2) UNSIGNED,
205
         mpID INT NOT NULL,
206
         PRIMARY KEY (miID),
207
         FOREIGN KEY (mpID) REFERENCES MaintainPackage (mpID),
208
         FOREIGN KEY (miSkill) REFERENCES Skillset (ssName)
209 );
210
211 CREATE TABLE ItemWork(
212
         miID INT NOT NULL,
213
         moID INT NOT NULL,
214
             iwDate DATE,
215
         PRIMARY KEY (miID, moID),
216
         FOREIGN KEY (miID) REFERENCES MaintainItem(miID),
217
         FOREIGN KEY (moID) REFERENCES MaintainOrder (moID)
218
    );
219
220 CREATE TABLE JobQueueLine(
221
         miID INT NOT NULL,
222
         eID INT NOT NULL,
223
         jqlDateOfWork DATE,
224
         PRIMARY KEY (miID, eID, jqlDateOfWork),
225
         FOREIGN KEY (miID) REFERENCES MaintainItem (miID),
226
         FOREIGN KEY (eID) REFERENCES Mechanic (eID)
227
    );
228
229
    CREATE TABLE MaintainPackageLine (
230
         moID
                 INT NOT NULL,
231
         mpID
                INT NOT NULL,
232
         PRIMARY KEY (moID, mpID),
233
         FOREIGN KEY (moID) REFERENCES MaintainOrder (moID),
234
         FOREIGN KEY (mpID) REFERENCES MaintainPackage (mpID)
235
     );
236
237
```