Database Design
CS 6360.003: Health/Fitness Program

Due on Wednesday December 7, 2016 at 11:59pm

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Contents

1 Requirement

The Fitness Systems main purpose is to assist the UT Dallas Fitness Center management. Management mainly care about these aspects: customer management, fitness program management, equipment management, and sport session management. The system shall include the following function and features.

1. The system shall keep track of customers profile. Basic information shall include name, address, phone, age, sexuality, height, weight. Each customer should have a customer id for identification. Each customer should have a membership id(valid date and expiration date) and a closet.

2. The system shall provide multiple fitness programs at different difficulty levels. The fitness program shall have the following information: name, type (aerobic/strength-/HIIT), list of equipment needed. For aerobic training, additional informations about the exercise intensity and minimal exercise time shall be available. In particular, there are four types of aerobic: treadmill, elliptical, exercise bike and rowing machine.

3. The system shall keep information about employees. Employees include trainer, equipment maintainer. Each trainer is eligible for some training programs.

4. Customer need to sign a contract to exercise in the Fitness Center. In the contract, customer can choose a fitness program. The system shall record the contract No.

5. The system shall keep information about all equipments, including name, price, vendor, model and age. each equipment's price can be implied by its vendor and model to identify.

6. Each equipment shall have one maintainer responsible for maintenance.

7. The system shall track and store the exercise sessions data for all customer, include exercise type, exercise session duration, average heart rate, maximum heart rate, estimate calories burnt. For aerobic training, types, distance and average pace shall be stored.

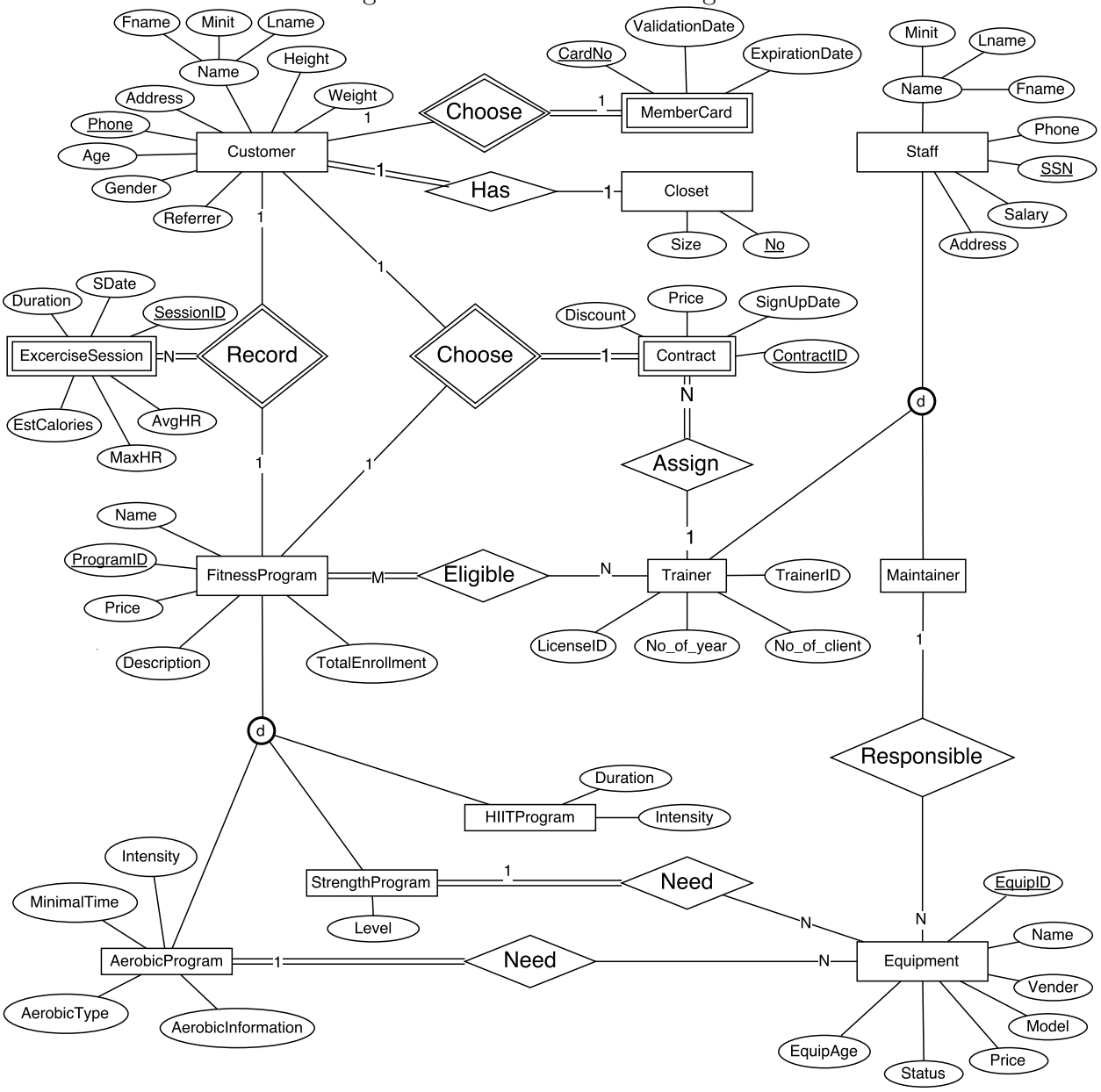
8. The system shall support occasional deal event, such as add bonus time for member registered during a specific period.

9. The system shall support clean up the exercise session data for long time idle user.

2 Enhanced Entity-Relation Diagram

The EER is shown in fig. 1.

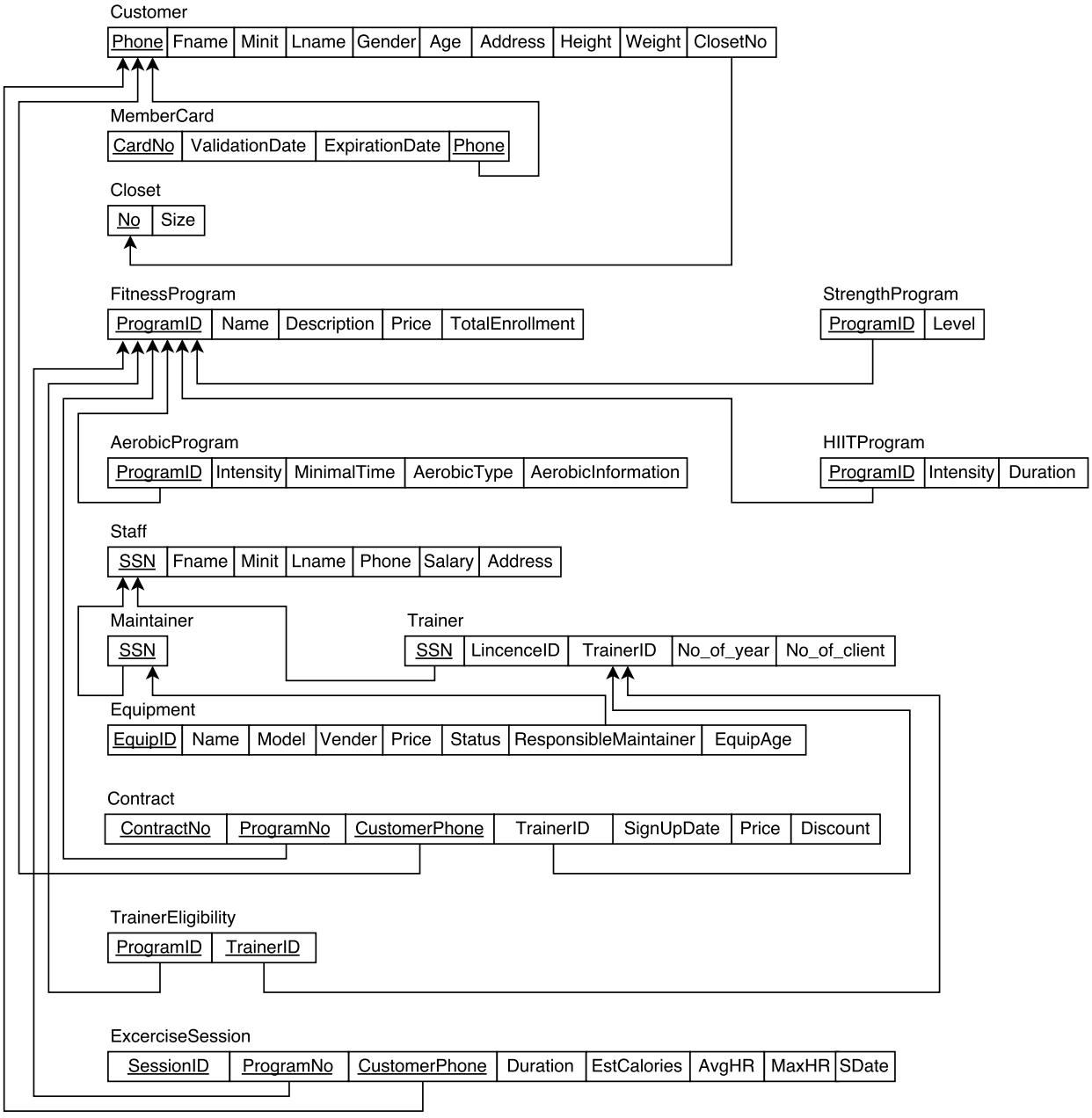
Figure 1: EER for Fitness Program



3 Mapping EER Diagram to Relational Schema and Normalization

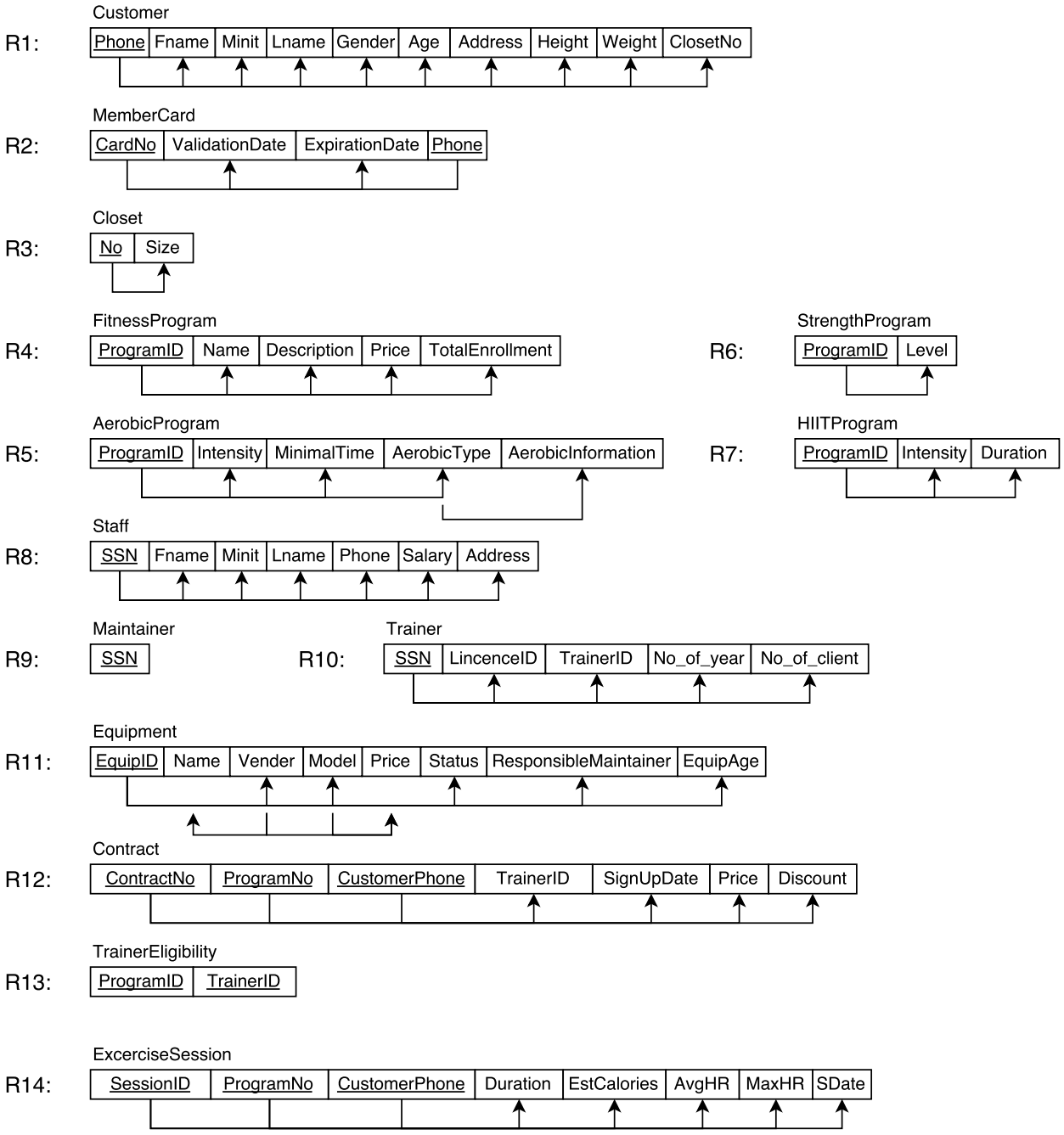
The relational schema mapped from EER is shown infig. 2.

Figure 2: Relational Schema after Mapping



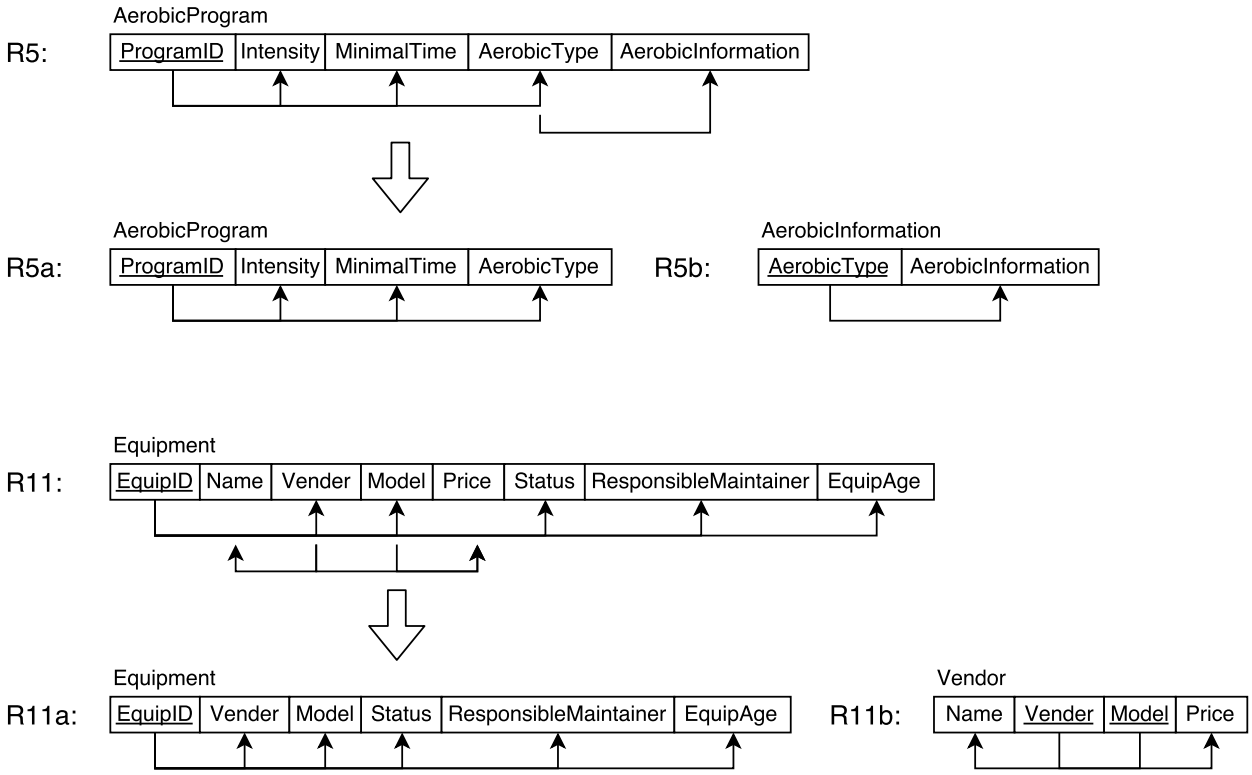
The functional dependencies in the schema is shown in fig. 3.

Figure 3: Original Functional Dependencies



We can see from fig. 3 that $R5$ and $R11$ violates 3NF. To normalize these relations, we need to remove the transitive functional dependencies in the relation. The normalization process is shown in fig. 4, $R5a$, $R5b$ substitute the original $R5$, $R11a$ and $R11b$ substitute the original $R11$.

Figure 4: Normalization Process



4 SQL

The CREATE table command is as follow.

```
1  --Create tables.
2  CREATE TABLE Closet (
3    No VARCHAR2(10),
4    ClosetSize VARCHAR2(10) NOT NULL,
5    PRIMARY KEY (No)
6  );
7  /
8  CREATE TABLE Customer (
9    Phone VARCHAR2(10),
10   Fname VARCHAR2(20) NOT NULL,
11   Minit CHAR,
12   Lname VARCHAR2(20) NOT NULL,
13   Gender CHAR NOT NULL,
14   Age NUMBER NOT NULL,
15   Height FLOAT,
16   Weight FLOAT,
17   ClosetNo VARCHAR2(10),
```

```
18   PRIMARY KEY (Phone),
19   FOREIGN KEY (ClosetNo) REFERENCES CLOSET(No) ON DELETE CASCADE
20 );
21 /
22 CREATE TABLE MemberCard (
23   CardNo VARCHAR2(10),
24   Phone VARCHAR2(10),
25   ValidationDate DATE NOT NULL,
26   ExpirationDate DATE NOT NULL,
27   PRIMARY KEY (CardNo, Phone),
28   FOREIGN KEY (Phone) REFERENCES Customer(Phone) ON DELETE CASCADE
29 );
30 /
31 CREATE TABLE FitnessProgram (
32   ProgramID NUMBER,
33   Name VARCHAR2(30) NOT NULL,
34   Description VARCHAR2(100) NOT NULL,
35   Price FLOAT NOT NULL,
36   TotalEnrollment NUMBER DEFAULT 0,
37   PRIMARY KEY (ProgramID)
38 );
39 /
40 CREATE TABLE AerobicInformation (
41   AerobicType VARCHAR2(20),
42   AerobicInformation VARCHAR2(300) NOT NULL,
43   PRIMARY KEY (AerobicType)
44 );
45 /
46 CREATE TABLE AerobicProgram (
47   ProgramID   NUMBER,
48   Intensity   VARCHAR2(15) NOT NULL,
49   MinimalTime NUMBER NOT NULL,
50   AerobicType VARCHAR2(20),
51   PRIMARY KEY (ProgramID),
52   FOREIGN KEY (ProgramID) REFERENCES FitnessProgram (ProgramID) ON
       DELETE CASCADE ,
53   FOREIGN KEY (AerobicType) REFERENCES AerobicInformation(AerobicType)
       ON DELETE CASCADE ,
54   CONSTRAINT maximumMinimalTime CHECK (MinimalTime < 90)
55 );
56 /
57 CREATE TABLE StrengthProgram (
58   ProgramID NUMBER,
```

```
59   StrengthLevel VARCHAR2(15) NOT NULL,
60   PRIMARY KEY (ProgramID),
61   FOREIGN KEY (ProgramID) REFERENCES FitnessProgram (ProgramID) ON
        DELETE CASCADE
62 );
63 /
64 CREATE TABLE HIITProgram (
65   ProgramID NUMBER,
66   Intensity VARCHAR2(15) NOT NULL,
67   Duration NUMBER NOT NULL,
68   PRIMARY KEY (ProgramID),
69   FOREIGN KEY (ProgramID) REFERENCES FitnessProgram (ProgramID) ON
        DELETE CASCADE ,
70   CONSTRAINT maximumDuration CHECK (Duration < 90)
71 );
72 /
73 CREATE TABLE Staff (
74   SSN CHAR(9),
75   Fname VARCHAR2(20) NOT NULL,
76   Minit CHAR,
77   Lname VARCHAR2(20) NOT NULL,
78   Phone VARCHAR2(10) NOT NULL,
79   Salary NUMBER NOT NULL,
80   Address VARCHAR2(60) NOT NULL,
81   PRIMARY KEY (SSN),
82   CONSTRAINT minSalary CHECK (Salary > 5000)
83 );
84 /
85 CREATE TABLE Maintainer (
86   SSN CHAR(9),
87   PRIMARY KEY (SSN),
88   FOREIGN KEY (SSN) REFERENCES Staff(SSN) ON DELETE CASCADE
89 );
90 /
91 CREATE TABLE Trainer (
92   SSN CHAR(9),
93   LicenseID CHAR(10),
94   TrainerID NUMBER UNIQUE NOT NULL,
95   No_of_years NUMBER NOT NULL,
96   No_of_clients NUMBER DEFAULT 0,
97   PRIMARY KEY (SSN),
98   FOREIGN KEY (SSN) REFERENCES Staff(SSN) ON DELETE CASCADE
99 );
```

```
100 /
101 CREATE TABLE Vendor (
102   Name VARCHAR2(20) NOT NULL,
103   VendorName VARCHAR2(20),
104   Model VARCHAR2(20),
105   Price FLOAT NOT NULL,
106   PRIMARY KEY (VendorName, Model)
107 );
108 CREATE TABLE Equipment (
109   EquipID VARCHAR(10),
110   Vendor VARCHAR2(20),
111   Model VARCHAR2(20),
112   Status VARCHAR2(20) NOT NULL,
113   ResponsibleMaintainer CHAR(9),
114   EquipAge NUMBER DEFAULT 0,
115   PRIMARY KEY (EquipID),
116   FOREIGN KEY (ResponsibleMaintainer) REFERENCES Maintainer(SSN) ON
        DELETE CASCADE,
117   FOREIGN KEY (Vendor, Model) REFERENCES Vendor(VendorName, Model) ON
        DELETE CASCADE
118 );
119 /
120 CREATE TABLE Contract (
121   ContractNo CHAR(10),
122   ProgramNo NUMBER,
123   CustomerPhone VARCHAR2(10),
124   TrainerID NUMBER NOT NULL,
125   SignUpDate DATE NOT NULL,
126   Price FLOAT NOT NULL,
127   Discount Float,
128   PRIMARY KEY (ContractNo, ProgramNo, CustomerPhone),
129   FOREIGN KEY (ProgramNo) REFERENCES FitnessProgram(ProgramID) ON
        DELETE CASCADE,
130   FOREIGN KEY (CustomerPhone) REFERENCES Customer(Phone) ON DELETE
        CASCADE,
131   FOREIGN KEY (TrainerID) REFERENCES Trainer(TrainerID) ON DELETE
        CASCADE
132 );
133 /
134 CREATE TABLE TrainerEligibility (
135   ProgramID NUMBER,
136   TrainerID NUMBER,
137   PRIMARY KEY (ProgramID, TrainerID),
```

```
138   FOREIGN KEY (ProgramID) REFERENCES FitnessProgram(ProgramID) ON
        DELETE CASCADE ,
139   FOREIGN KEY (TrainerID) REFERENCES Trainer(TrainerID) ON DELETE
        CASCADE
140 );
141 /
142 CREATE TABLE ExerciseSession (
143   SessionID CHAR(15),
144   ProgramID NUMBER,
145   CustomerPhone VARCHAR2(10),
146   Duration NUMBER NOT NULL,
147   EstCalories FLOAT NOT NULL,
148   AvgHR NUMBER NOT NULL,
149   MaxHR NUMBER NOT NULL,
150   SDATE DATE NOT NULL,
151   PRIMARY KEY (SessionID, ProgramID, CustomerPhone),
152   FOREIGN KEY (ProgramID) REFERENCES FitnessProgram(ProgramID) ON
        DELETE CASCADE ,
153   FOREIGN KEY (CustomerPhone) REFERENCES Customer(Phone) ON DELETE
        CASCADE
154 );
```

5 Trigger

5.1 Update Total Enrollment of Program

Each time a record was added to the CONTRACT table, the *TotalEnrollment* in table FITNESSPROGRAM of the particular program should add 1.

The trigger is defined as follow:

```
1  CREATE OR REPLACE TRIGGER addTotalEnrollmentTrigger
2    AFTER INSERT ON CONTRACT
3        FOR EACH ROW
4  BEGIN
5    UPDATE FITNESSPROGRAM
6      SET TOTALENROLLMENT = TOTALENROLLMENT + 1
7      WHERE PROGRAMID = :new.PROGRAMNO;
8    UPDATE TRAINER
9      SET NO_OF_CLIENTS = NO_OF_CLIENTS + 1
10     WHERE TRAINERID = :new.TRAINERID;
11 END;/
```

5.2 Log all the changes about Customer

Each time a record was added/updated/deleted in CUSTOMER table, record the modification in CUSTOMER_LOG table.

The trigger is defined as follow:

```
1  CREATE TABLE Customer_Log ( log_date DATE, action VARCHAR2(50),
2    old_Phone VARCHAR2(10), old_Gender CHAR, old_Age NUMBER,
3    old_Height FLOAT, old_Weight FLOAT, old_ClosetNo VARCHAR2(10),
4    new_Phone VARCHAR2(10), new_Gender CHAR, new_Age NUMBER,
5    new_Height FLOAT, new_Weight FLOAT, new_ClosetNo VARCHAR2(10)
6  );
7
8  CREATE OR REPLACE TRIGGER customerLogTrigger
9    AFTER INSERT OR UPDATE OR DELETE ON CUSTOMER
10       FOR EACH ROW
11 DECLARE
12   log_action  Customer_Log.action%TYPE;
13 BEGIN
14   IF INSERTING THEN
15     log_action := 'Insert';
16     INSERT INTO Customer_Log
17     VALUES (SYSDATE, log_action, null, null, null, null, null, null,
18             :new.PHONE, :new.GENDER, :new.AGE,
19             :new.HEIGHT, :new.WEIGHT, :new.CLOSETNO );
20   ELSIF UPDATING THEN
21     log_action := 'Update';
22     INSERT INTO Customer_Log
23     VALUES (SYSDATE, log_action,
24             :old.PHONE, :old.GENDER, :old.AGE,
25             :old.HEIGHT, :old.WEIGHT, :old.CLOSETNO,
26             :new.PHONE, :new.GENDER, :new.AGE,
27             :new.HEIGHT, :new.WEIGHT, :new.CLOSETNO );
28   ELSIF DELETING THEN
29     log_action := 'Delete';
30     INSERT INTO Customer_Log
31     VALUES (SYSDATE, log_action,
32             :old.PHONE, :old.GENDER, :old.AGE,
33             :old.HEIGHT, :old.WEIGHT, :old.CLOSETNO,
34             null, null, null, null, null, null );
35   ELSE
36     DBMS_OUTPUT.PUT_LINE('This code is not reachable.');
37   END IF;
38 END;/
```

6 Procedure

6.1 Delete old Exercise Session Data for Customer

According to requirement, the database should only keep exercise session data of non-member customer for two years, three for customer with expired membership, and forever for current member. Therefore, there would be a circumstance that we want to delete exercise session data of two years old for customer without member, as well as the exercise session of three years old for customer with expired member card. The procedure is defined as follow:

```
1  CREATE OR REPLACE PROCEDURE deleteSessionOfIdleCustomer
2    ( WithoutMemerCard      IN NUMBER DEFAULT 730,
3      WithExpireMemerCard   IN NUMBER DEFAULT 1095 ) AS
4    CURSOR CustomerWithoutMemberCard IS
5      SELECT  CUSTOMER.PHONE
6      FROM    CUSTOMER
7      WHERE   PHONE NOT IN (SELECT PHONE FROM MEMBERCARD);
8    CURSOR CustomerWithExpireMemberCard IS
9      SELECT  CUSTOMER.PHONE
10     FROM    CUSTOMER
11     WHERE   PHONE IN (
12       SELECT PHONE FROM MEMBERCARD WHERE EXPIRATIONDATE < SYSDATE);
13   thisWithoutCard CustomerWithoutMemberCard%ROWTYPE;
14   thisExpiredCard CustomerWithExpireMemberCard%ROWTYPE;
15 BEGIN
16   OPEN CustomerWithoutMemberCard;
17   LOOP
18     FETCH CustomerWithoutMemberCard INTO thisWithoutCard;
19     EXIT WHEN CustomerWithoutMemberCard%NOTFOUND;
20     DELETE FROM EXERCISESESSION
21       WHERE CUSTOMERPHONE = thisWithoutCard.PHONE
22         AND SDATE < SYSDATE - WithoutMemerCard;
23    END LOOP;
24   CLOSE CustomerWithoutMemberCard;
25   OPEN CustomerWithExpireMemberCard;
26   LOOP
27     FETCH CustomerWithExpireMemberCard INTO thisExpiredCard;
28     EXIT WHEN CustomerWithExpireMemberCard%NOTFOUND;
29     DELETE FROM EXERCISESESSION
30       WHERE CUSTOMERPHONE = thisExpiredCard.PHONE
31         AND SDATE < SYSDATE - WithExpireMemerCard;
32    END LOOP;
33   CLOSE CustomerWithExpireMemberCard;
34 END;/
```

6.2 Add Bonus for Specific Member

Assume a deal event want to add some bonus time for member registered during specific period. The procedure is defined as follow:

```
CREATE OR REPLACE PROCEDURE addBonusTime
  ( StartDate IN MEMBERCARD.VALIDATIONDATE%TYPE,
    EndDate IN MEMBERCARD.VALIDATIONDATE%TYPE,
    bonusTime IN NUMBER DEFAULT 90 ) AS
  CURSOR EligibleMember IS
    SELECT MEMBERCARD.CARDNO
    FROM MEMBERCARD
    WHERE VALIDATIONDATE >= StartDate
      AND VALIDATIONDATE <= EndDate
      AND EXPIRATIONDATE - VALIDATIONDATE > 180;
  thisMember EligibleMember%ROWTYPE;
BEGIN
  OPEN EligibleMember;
  LOOP
    FETCH EligibleMember INTO thisMember;
    EXIT WHEN EligibleMember%NOTFOUND;

    UPDATE MEMBERCARD
      SET EXPIRATIONDATE = EXPIRATIONDATE + bonusTime;
   END LOOP;
  CLOSE EligibleMember;
END;/
```

7 Business Rule

7.1 Check the Age of the Equipment

Assume not allowing a equipment older than 5 years, the constraint is defined as follow:

```
ALTER TABLE EQUIPMENT
ADD CONSTRAINT CheckEquipAge
  CHECK (EquipAge <= 5);
```

7.2 Check the TotalEnrollment of a Fitness Program

Assume not allowing a fitness program's total enrollment shall not exceed 50, the constraint is defined as follow:

```
ALTER TABLE FitnessProgram
  ADD CONSTRAINT CheckTOTALENROLLMENT
  CHECK (TOTALENROLLMENT <= 50);
```

7.3 Check the Number of client of a Fitness Trainer

Assume not allowing a fitness trainer's client number shall not exceed 50, the constraint is defined as follow:

```
ALTER TABLE Trainer
  ADD CONSTRAINT CheckNo_of_clients
  CHECK (No_of_clients <= 50);
```

8 Appendix

Here is some sample data.

```
--Sample Data
--Closet Data
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000001','Small');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000002','Small');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000003','Small');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000004','Small');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000005','Middle');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000006','Middle');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000007','Middle');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000008','Middle');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000009','Large');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000010','Large');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000011','Large');/
INSERT INTO CLOSET (NO, CLOSETSIZE) VALUES ('0000000012','Large');/
--Customer Data
INSERT INTO CUSTOMER (PHONE, FNAME, MINIT, LNAME, GENDER, AGE, HEIGHT,
    WEIGHT, CLOSETNO)
  VALUES ('4695621000','San','M','Zhang','M',25,5.10,180,'0000000001')
    ;/
INSERT INTO CUSTOMER (PHONE, FNAME, MINIT, LNAME, GENDER, AGE, HEIGHT,
    WEIGHT, CLOSETNO)
  VALUES ('4695622000','Si','M','Li','M',26,6.3,170,'0000000006');/
INSERT INTO CUSTOMER (PHONE, FNAME, MINIT, LNAME, GENDER, AGE, HEIGHT,
    WEIGHT, CLOSETNO)
  VALUES ('4695623000','Wu','M','Wang','F',30,4.10,130,'0000000010');/
```

```
22 INSERT INTO CUSTOMER (PHONE, FNAME, MINIT, LNAME, GENDER, AGE, HEIGHT,
     WEIGHT, CLOSETNO)
23   VALUES ('4695624000','John','M','Keats','M',55,5.6,150,'0000000011');
24 --MemberCard Data
25 INSERT INTO MEMBERCARD (CARDNO, PHONE, VALIDATIONDATE, EXPIRATIONDATE)
26   VALUES ('1000000001','4695621000','30-MAR-16','30-MAR-17');/
27 INSERT INTO MEMBERCARD (CARDNO, PHONE, VALIDATIONDATE, EXPIRATIONDATE)
28   VALUES ('1000000002','4695623000','01-OCT-15','01-OCT-16');/
29 --FitnessProgram Data
30 INSERT INTO FITNESSPROGRAM (PROGRAMID, NAME, DESCRIPTION, PRICE)
31   VALUES (1,'Jogging','Jogging is good for life.',100.0);/
32 INSERT INTO FITNESSPROGRAM (PROGRAMID, NAME, DESCRIPTION, PRICE)
33   VALUES (2,'Insanity','Fight for life.',120.0);/
34 INSERT INTO FITNESSPROGRAM (PROGRAMID, NAME, DESCRIPTION, PRICE)
35   VALUES (3,'Music Cycling','Cycling is good for life.',80.0);/
36 INSERT INTO FITNESSPROGRAM (PROGRAMID, NAME, DESCRIPTION, PRICE)
37   VALUES (4,'Power','Strength is good for life.',130.0);/
38 INSERT INTO FITNESSPROGRAM (PROGRAMID, NAME, DESCRIPTION, PRICE)
39   VALUES (5,'T25','HIIT is good for life.',110.0);/
40 --AerobicInformation Data
41 INSERT INTO AEROBICINFORMATION (AEROBICTYPE, AEROBICINFORMATION)
42   VALUES ('Jogging','Jogging is a form of trotting or running at a slow
       or leisurely pace.');/
43 INSERT INTO AEROBICINFORMATION (AEROBICTYPE, AEROBICINFORMATION)
44   VALUES ('Cycling','Cycling, also called bicycling or biking, is the
      use of bicycles for transport, recreation, exercise or sport.');/
45 --AerobicProgram Data
46 INSERT INTO AEROBICPROGRAM (PROGRAMID, INTENSITY, MINIMALTIME,
     AEROBICTYPE)
47   VALUES (1,'Low',30,'Jogging');/
48 INSERT INTO AEROBICPROGRAM (PROGRAMID, INTENSITY, MINIMALTIME,
     AEROBICTYPE)
49   VALUES (3,'Middle',20,'Cycling');/
50 --StrengthProgram Data
51 INSERT INTO STRENGTHPROGRAM (PROGRAMID, STRENGTHLEVEL) VALUES (4,'
     Expert');/
52 --HIITProgram Data
53 INSERT INTO HIITPROGRAM (PROGRAMID, INTENSITY, DURATION)
54   VALUES (2,'High',60);/
55 INSERT INTO HIITPROGRAM (PROGRAMID, INTENSITY, DURATION)
56   VALUES (5,'Middle',40);/
57 --Staff Data
58 INSERT INTO STAFF (SSN, FNAME, MINIT, LNAME, PHONE, SALARY, ADDRESS)
```

```
59   VALUES ('200000001','Jon','M','Steward','4695624000',6000,'900 Civic
       Center Dr, Richardson, TX 75080');/
60 INSERT INTO STAFF (SSN, FNAME, MINIT, LNAME, PHONE, SALARY, ADDRESS)
61   VALUES ('200000002','Trevor','M','Noah','4695625000',7000,'800 West
       Campbell Road, Richardson, TX 75080');/
62 INSERT INTO STAFF (SSN, FNAME, MINIT, LNAME, PHONE, SALARY, ADDRESS)
63   VALUES ('200000003','Steven','M','Colbert','4695626000',8000,'6400
       Frankford Rd, Dallas, TX 75252');/
64 --Maintainer Data
65 INSERT INTO MAINTAINER (SSN) VALUES ('200000003');/
66 --Trainer Data
67 INSERT INTO TRAINER (SSN, LICENSEID, TRAINERID, NO_OF_YEARS)
68   VALUES ('200000001','6000000001',1,16);/
69 INSERT INTO TRAINER (SSN, LICENSEID, TRAINERID, NO_OF_YEARS)
70   VALUES ('200000002','6000000002',2,1);/
71 --Vendor Data
72 INSERT INTO VENDOR (NAME, VENDORNAME, MODEL, PRICE)
73   VALUES ('Treadmill','Decathlon','TR0001',210);/
74 INSERT INTO VENDOR (NAME, VENDORNAME, MODEL, PRICE)
75   VALUES ('Treadmill','Decathlon','TR0002',310);/
76 INSERT INTO VENDOR (NAME, VENDORNAME, MODEL, PRICE)
77   VALUES ('Cycle Trainer','Decathlon','CL0004',110);/
78 INSERT INTO VENDOR (NAME, VENDORNAME, MODEL, PRICE)
79   VALUES ('Cycle Trainer','Nordic','CT0001',150);/
80 --Equipment Data
81 INSERT INTO EQUIPMENT (EQUIPID, VENDOR, MODEL, STATUS,
     RESPONSIBLEMAINTAINER)
82   VALUES ('E000000001','Decathlon','TR0001','In Use','200000003');/
83 INSERT INTO EQUIPMENT (EQUIPID, VENDOR, MODEL, STATUS,
     RESPONSIBLEMAINTAINER)
84   VALUES ('E000000002','Decathlon','TR0001','Idle','200000003');/
85 INSERT INTO EQUIPMENT (EQUIPID, VENDOR, MODEL, STATUS,
     RESPONSIBLEMAINTAINER)
86   VALUES ('E000000003','Decathlon','TR0002','In Use','200000003');/
87 INSERT INTO EQUIPMENT (EQUIPID, VENDOR, MODEL, STATUS,
     RESPONSIBLEMAINTAINER)
88   VALUES ('E000000004','Decathlon','CL0004','In Use','200000003');/
89 INSERT INTO EQUIPMENT (EQUIPID, VENDOR, MODEL, STATUS,
     RESPONSIBLEMAINTAINER)
90   VALUES ('E000000005','Nordic','CT0001','In Use','200000003');/
91 --Contract Data
92 INSERT INTO CONTRACT (CONTRACTNO, PROGRAMNO, CUSTOMERPHONE, TRAINERID,
     SIGNUPDATE, PRICE, DISCOUNT)
```

```
93    VALUES ('0000000001',1,'4695621000',1,'30-MAR-16',100,1);/
94  INSERT INTO CONTRACT (CONTRACTNO, PROGRAMNO, CUSTOMERPHONE, TRAINERID,
      SIGNUPDATE, PRICE, DISCOUNT)
95    VALUES ('0000000002',4,'4695623000',2,'01-OCT-15',130,1);/
96  --TrainerEligibility Data
97  INSERT INTO TRAINERELIGIBILITY (PROGRAMID, TRAINERID) VALUES (1,1);/
98  INSERT INTO TRAINERELIGIBILITY (PROGRAMID, TRAINERID) VALUES (3,1);/
99  INSERT INTO TRAINERELIGIBILITY (PROGRAMID, TRAINERID) VALUES (1,2);/
100 INSERT INTO TRAINERELIGIBILITY (PROGRAMID, TRAINERID) VALUES (2,2);/
101 INSERT INTO TRAINERELIGIBILITY (PROGRAMID, TRAINERID) VALUES (3,2);/
102 INSERT INTO TRAINERELIGIBILITY (PROGRAMID, TRAINERID) VALUES (4,2);/
103 INSERT INTO TRAINERELIGIBILITY (PROGRAMID, TRAINERID) VALUES (5,2);/
104 --ExerciseSession Data
105 INSERT INTO EXERCISESESSION (SESSIONID, PROGRAMID, CUSTOMERPHONE,
      DURATION, ESTCALORIES, AVGHR, MAXHR, SDATE)
106   VALUES ('000000000000001',1,'4695621000',60,900,160,180,SYSDATE);/
107 INSERT INTO EXERCISESESSION (SESSIONID, PROGRAMID, CUSTOMERPHONE,
      DURATION, ESTCALORIES, AVGHR, MAXHR, SDATE)
108   VALUES ('000000000000002',1,'4695621000',60,900,160,180,SYSDATE-2000)
        ;/
109 INSERT INTO EXERCISESESSION (SESSIONID, PROGRAMID, CUSTOMERPHONE,
      DURATION, ESTCALORIES, AVGHR, MAXHR, SDATE)
110   VALUES ('000000000000003',1,'4695622000',60,900,160,180,SYSDATE-500)
        ;/
111 INSERT INTO EXERCISESESSION (SESSIONID, PROGRAMID, CUSTOMERPHONE,
      DURATION, ESTCALORIES, AVGHR, MAXHR, SDATE)
112   VALUES ('000000000000004',1,'4695622000',60,900,160,180,SYSDATE-1000)
        ;/
```