```sql
CREATE TABLE Trainer (
        trainerID INTEGER PRIMARY KEY,
        fName VARCHAR(255),
        lName VARCHAR(255),
        gender CHAR(1),
        certification VARCHAR(255),
        securityCheck BOOLEAN,
        emailAddr VARCHAR(255),
        phone VARCHAR(255),
        scheduleTID INTEGER  -- Foreign key added later
);

CREATE TABLE Availability (
        availabilityID INTEGER PRIMARY KEY,
        date DATE,
        startTime TIME,
        endTime TIME
);

CREATE TABLE TrainerAvailability (
        trainerID INTEGER,  -- Foreign key added later
        availabilityID INTEGER,  -- Foreign key added later
        PRIMARY KEY (trainerID, availabilityID)
);

CREATE TABLE TrainerSchedule (
        scheduleTID INTEGER PRIMARY KEY,
        trainerID INTEGER,  -- Foreign key added later
        updatingAdmin INTEGER  -- Foreign key added later
);

CREATE TABLE TrainerView (
        profileID INTEGER,  -- Foreign key added later
        trainerID INTEGER,  -- Foreign key added later
        PRIMARY KEY (profileID, trainerID)
);

CREATE TABLE TrainerAssigns (
        trainerID INTEGER,  -- Foreign key added later
        profileID INTEGER,  -- Foreign key added later
        exerciseID INTEGER,  -- Foreign key added later
        PRIMARY KEY (trainerID, profileID)
);
```

```sql
CREATE TABLE Member (
        memberID INTEGER PRIMARY KEY,
        profileID INTEGER,  -- Foreign key added later
        fName VARCHAR(255),
        lName VARCHAR(255),
        gender CHAR(1),
        emailAddr VARCHAR(255),
        phone VARCHAR(255),
        homeNum VARCHAR(255),
        streetName VARCHAR(255),
        postalCode VARCHAR(255),
        dateOfBirth DATE CHECK (dateOfBirth <= CURRENT_DATE - INTERVAL '18 years')
);

CREATE TABLE MemberSchedule (
        scheduleMID INTEGER PRIMARY KEY,
        memberID INTEGER,  -- Foreign key added later
        updatingAdmin INTEGER  -- Foreign key added later
);

CREATE TABLE EventsMember (
        bookingID INTEGER,  -- Foreign key added later
        scheduleMID INTEGER,  -- Foreign key added later
        PRIMARY KEY (bookingID, scheduleMID)
);

CREATE TABLE Booking (
        bookingID INTEGER PRIMARY KEY,
        room VARCHAR(255),
        type VARCHAR(255),
        date DATE,
        time TIME,
        status VARCHAR(255),
        instructor INTEGER,  -- Foreign key added later
        processingAdmin INTEGER,  -- Foreign key added later
        equipmentStatus BOOLEAN,
        roomStatus BOOLEAN,
        trainerAvailable BOOLEAN,
        scheduleTID INTEGER,  -- Foreign key added later
        duration SMALLINT
);

CREATE TABLE RequestBooking (
        bookingID INTEGER,  -- Foreign key added later
```

```sql
        memberID INTEGER,  -- Foreign key added later
        PRIMARY KEY (bookingID, memberID)
);

CREATE TABLE Equipment (
        equipmentID INTEGER PRIMARY KEY,
        name VARCHAR(255),
        location VARCHAR(255),
        monitoringAdmin INTEGER,  -- Foreign key added later
        lastMonitored DATE,
        score SMALLINT CHECK (score BETWEEN 1 AND 10)
);

CREATE TABLE Admin (
        adminID INTEGER PRIMARY KEY,
        fName VARCHAR(255),
        lName VARCHAR(255),
        emailAddr VARCHAR(255),
        phone VARCHAR(255)
);

CREATE TABLE Payment (
        paymentID INTEGER PRIMARY KEY,
        type VARCHAR(255),
        dateIssued DATE,
        dateBilled DATE,
        amount MONEY,
        processingAdmin INTEGER,  -- Foreign key added later
        payee INTEGER  -- Foreign key added later
);

CREATE TABLE Profile (
        profileID INTEGER PRIMARY KEY,
        memberID INTEGER,  -- Foreign key added later
        status VARCHAR(255),
        weight INTEGER,
        bloodPressure VARCHAR(255),
        bodyFat INTEGER
);

CREATE TABLE Goal (
        goalID INTEGER PRIMARY KEY,
        targetWeight INTEGER,
        targetPace TIME,
```

```sql
        targetBodyFat INTEGER
);

CREATE TABLE Achievements (
        achievID INTEGER PRIMARY KEY,
        goalID INTEGER  -- Foreign key added later
);

CREATE TABLE ProfileAchievements (
        profileID INTEGER,  -- Foreign key added later
        achievID INTEGER,  -- Foreign key added later
        PRIMARY KEY (profileID, achievID)
);

CREATE TABLE ProfileGoals (
        profileID INTEGER,  -- Foreign key added later
        goalID INTEGER,  -- Foreign key added later
        PRIMARY KEY (profileID, goalID)
);

CREATE TABLE ProfileRoutines (
        profileID INTEGER,  -- Foreign key added later
        exerciseID INTEGER,  -- Foreign key added later
        PRIMARY KEY (profileID, exerciseID)
);

CREATE TABLE Exercise(
        exerciseID INTEGER PRIMARY KEY,
        name VARCHAR(255),
        description TEXT
);
```

-- These statements, will be inserted after the DML Statments

```sql
ALTER TABLE Profile ADD CONSTRAINT fk_profile_member FOREIGN KEY (memberID)
REFERENCES Member(memberID);

ALTER TABLE Member ADD CONSTRAINT fk_member_profile FOREIGN KEY (profileID)
REFERENCES Profile(profileID);

ALTER TABLE Achievements ADD CONSTRAINT fk_achievements_goal FOREIGN KEY
(goalID) REFERENCES Goal(goalID);

ALTER TABLE Trainer ADD CONSTRAINT fk_trainer_scheduleTID FOREIGN KEY
(scheduleTID) REFERENCES TrainerSchedule(scheduleTID);

ALTER TABLE TrainerSchedule ADD CONSTRAINT fk_trainerSchedule_trainer FOREIGN KEY
(trainerID) REFERENCES Trainer(trainerID);
ALTER TABLE TrainerSchedule ADD CONSTRAINT fk_trainerSchedule_admin FOREIGN KEY
(updatingAdmin) REFERENCES Admin(adminID);


ALTER TABLE Booking ADD CONSTRAINT fk_booking_instructor FOREIGN KEY (instructor)
REFERENCES Trainer(trainerID);
ALTER TABLE Booking ADD CONSTRAINT fk_booking_processingAdmin FOREIGN KEY
(processingAdmin) REFERENCES Admin(adminID);
ALTER TABLE Booking ADD CONSTRAINT fk_booking_scheduleTID FOREIGN KEY
(scheduleTID) REFERENCES TrainerSchedule(scheduleTID);

ALTER TABLE MemberSchedule ADD CONSTRAINT fk_memberSchedule_member FOREIGN
KEY (memberID) REFERENCES Member(memberID);
ALTER TABLE MemberSchedule ADD CONSTRAINT fk_memberSchedule_admin FOREIGN
KEY (updatingAdmin) REFERENCES Admin(adminID);

ALTER TABLE Equipment ADD CONSTRAINT fk_equipment_admin FOREIGN KEY
(monitoringAdmin) REFERENCES Admin(adminID);

ALTER TABLE Payment ADD CONSTRAINT fk_payment_processingAdmin FOREIGN KEY
(processingAdmin) REFERENCES Admin(adminID);
ALTER TABLE Payment ADD CONSTRAINT fk_payment_payee FOREIGN KEY (payee)
REFERENCES Profile(profileID);

ALTER TABLE TrainerAvailability ADD CONSTRAINT fk_trainerAvailability_trainer FOREIGN
KEY (trainerID) REFERENCES Trainer(trainerID);
ALTER TABLE TrainerAvailability ADD CONSTRAINT fk_trainerAvailability_availability
FOREIGN KEY (availabilityID) REFERENCES Availability(availabilityID);
```

```sql
ALTER TABLE TrainerView ADD CONSTRAINT fk_trainerView_profile FOREIGN KEY
(profileID) REFERENCES Profile(profileID);
ALTER TABLE TrainerView ADD CONSTRAINT fk_trainerView_trainer FOREIGN KEY
(trainerID) REFERENCES Trainer(trainerID);

ALTER TABLE TrainerAssigns ADD CONSTRAINT fk_trainerAssigns_trainer FOREIGN KEY
(trainerID) REFERENCES Trainer(trainerID);
ALTER TABLE TrainerAssigns ADD CONSTRAINT fk_trainerAssigns_profile FOREIGN KEY
(profileID) REFERENCES Profile(profileID);
ALTER TABLE TrainerAssigns ADD CONSTRAINT fk_trainerAssigns_exercise FOREIGN KEY
(exerciseID) REFERENCES Exercise(exerciseID);

ALTER TABLE EventsMember ADD CONSTRAINT fk_eventsMember_booking FOREIGN KEY
(bookingID) REFERENCES Booking(bookingID);
ALTER TABLE EventsMember ADD CONSTRAINT fk_eventsMember_scheduleMID FOREIGN
KEY (scheduleMID) REFERENCES MemberSchedule(scheduleMID);

ALTER TABLE RequestBooking ADD CONSTRAINT fk_requestBooking_booking FOREIGN
KEY (bookingID) REFERENCES Booking(bookingID);
ALTER TABLE RequestBooking ADD CONSTRAINT fk_requestBooking_member FOREIGN
KEY (memberID) REFERENCES Member(memberID);

ALTER TABLE ProfileAchievements ADD CONSTRAINT fk_profileAchievements_profile
FOREIGN KEY (profileID) REFERENCES Profile(profileID);
ALTER TABLE ProfileAchievements ADD CONSTRAINT fk_profileAchievements_achiev
FOREIGN KEY (achievID) REFERENCES Achievements(achievID);

ALTER TABLE ProfileGoals ADD CONSTRAINT fk_profileGoals_profile FOREIGN KEY
(profileID) REFERENCES Profile(profileID);
ALTER TABLE ProfileGoals ADD CONSTRAINT fk_profileGoals_goal FOREIGN KEY (goalID)
REFERENCES Goal(goalID);

ALTER TABLE ProfileRoutines ADD CONSTRAINT fk_profileRoutines_profile FOREIGN KEY
(profileID) REFERENCES Profile(profileID);
ALTER TABLE ProfileRoutines ADD CONSTRAINT fk_profileRoutines_exercise FOREIGN KEY
(exerciseID) REFERENCES Exercise(exerciseID);
```