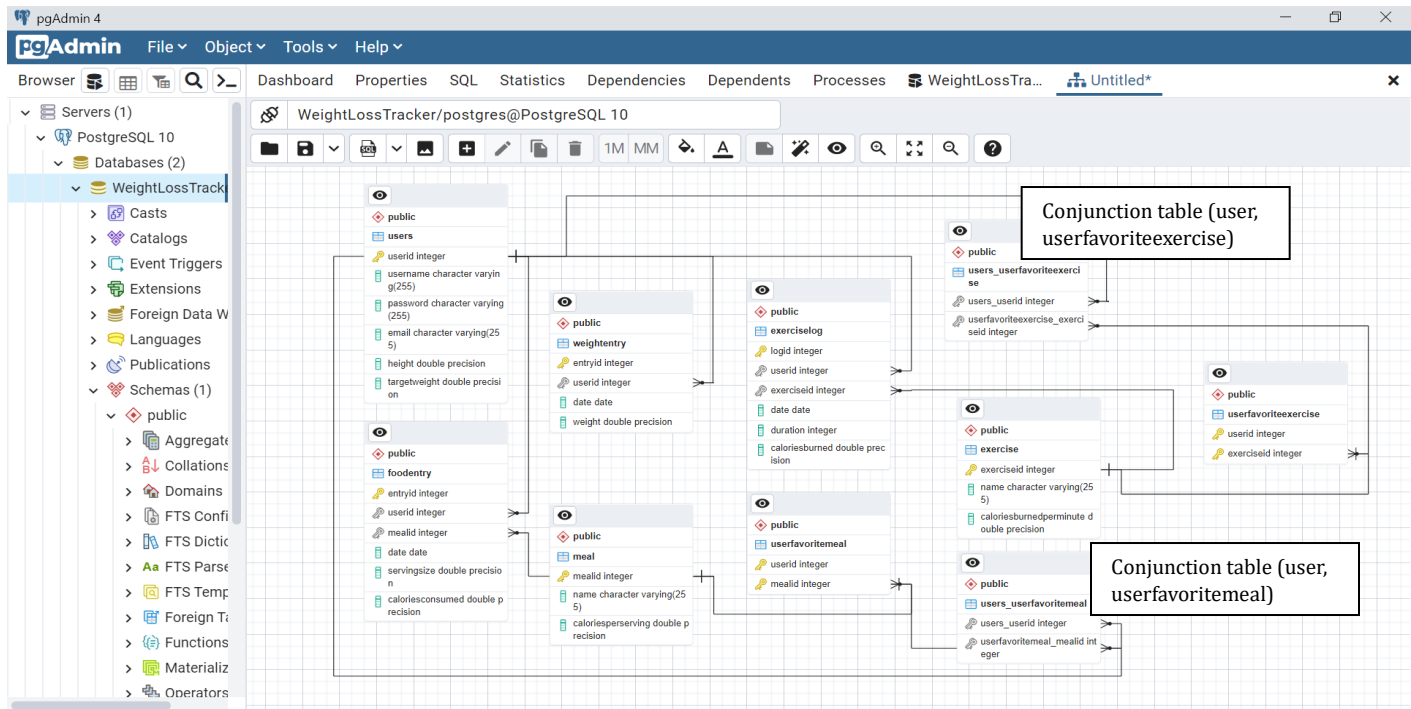# LeanLife: Sculpting Wellness, One Pound at a Time

Entities:

1. User Table
- UserID (Primary Key)
- Username
- Password
- Email
- Height
- TargetWeight

2. WeightEntry Table
- EntryID (Primary Key)
- Date
- Weight
- UserID (Foreign Key)

3. Exercise Table
- ExerciseID (Primary Key)
- Name (name of exercise)
- CaloriesBurnedPerMinute

4. **ExerciseLog Table**
   - LogID (Primary Key)
   - UserID (Foreign Key)
   - ExerciseID(Foreign Key)
   - Date
   - Duration
   - CaloriesBurned

5. **Meal Table**
   - MealID (Primary Key)
   - Name (name of meal)
   - CaloriesPerServing

6. **FoodEntry Table**
   - EntryID (Primary Key)
   - UserID (Foreign Key)
   - MealID(Foreign Key)
   - Date
   - ServingSize
   - CaloriesConsumed

7. **UserFavoriteExercise Table**
   - UserID
   - ExerciseID

8. **UserFavoriteMeal Table**
   - UserID
   - ExerciseID

Relationships:

1. **User Table to WeightEntry Table (One-to-Many)**
   - One user can have many weight entries.

2. **User Table to ExerciseLog Table (One-to-Many)**
   - One user can have multiple exercise logs over time.

3. **User Table to FoodEntry Table (One-to-Many)**
   - One user can have multiple food entries over time.

4. **Exercise Table to ExerciseLog Table (One-to-Many)**

- One type of exercise can be logged multiple times by different users.
5. **Meal Table to FoodEntry Table (One-to-Many)**
    - One type of meal can be consumed multiple times by different users.

6. **UserFavoriteExercise (Many-to-Many)**
    - A user can have multiple favorite exercises, and an exercise can be favorited by multiple users.

7. **UserFavoriteMeals (Many-to-Many)**
    - A user can have multiple favorite meals, and a meal can be favorited by multiple users.