Relational Schema in 3NF

User(ID, Name)

Workouts(<u>Type</u>, Intensity, Duration, Time, Calories Burnt, I.D.)

Weights(Units, I.D.)

Meals(Time, Amount, I.D.)

Food/Beverages(<u>Type</u>)

Micronutrients(<u>F/B Type</u>, <u>Type</u>, Quantity, Recommended Amount)

Macronutrients(<u>F/B Type</u>, <u>Type</u>, Calories per Serving, Grams per Serving)

Serving Size(Macro Type, Units)

Graphs(Workout Type, Weight Units, Macro Type, Weight Over Time, Percent of each Macronutrient, Calories Burnt per Day, Calories Consumed per day)

Have A(Macro Type, Serving Size Units)

Generates(Workout Type, Weight Units)

Has(<u>F/B Type</u>, Micro Type, Macro Type)

- F/B Type from **Micronutrients** is a foreign key from **Food/Beverages**.
- F/B Type from **Macronutrients** is a foreign key from **Food/Beverages**.
- Macro Type from Serving Size is a foreign key from Macronutrients.
- Workout Type from **Graphs** is a foreign key from **Workouts**.
- Weight Units from **Graphs** is a foreign key from **Weight**.
- Macro Type from **Graphs** is a foreign key from **Macronutrients**.
- I.D. from **Workouts** is a forgeign key from **User**.
- I.D. from **Weight** is a foreign key from **User**.
- I.D. from **Meals** is a foreign key from **User**.
- Macro Type, from **Have A** is a foreign key from **Macronutrients**.
- Serving Size Units from **Have A** is a foreign key from **Serving Size**.
- Workout Type from **Generates** is a foreign key from **Workouts**.
- Weight Units from Generates is a foreign key from Weight.
- <u>F/B Type</u> from **Has** is a foreign key from **Food/Beverages**.
- Micro Type from **Has** is a foreign key from **Micronutrients**.
- Macro Type from **Has** is a foreign key from **Macronutrients**.