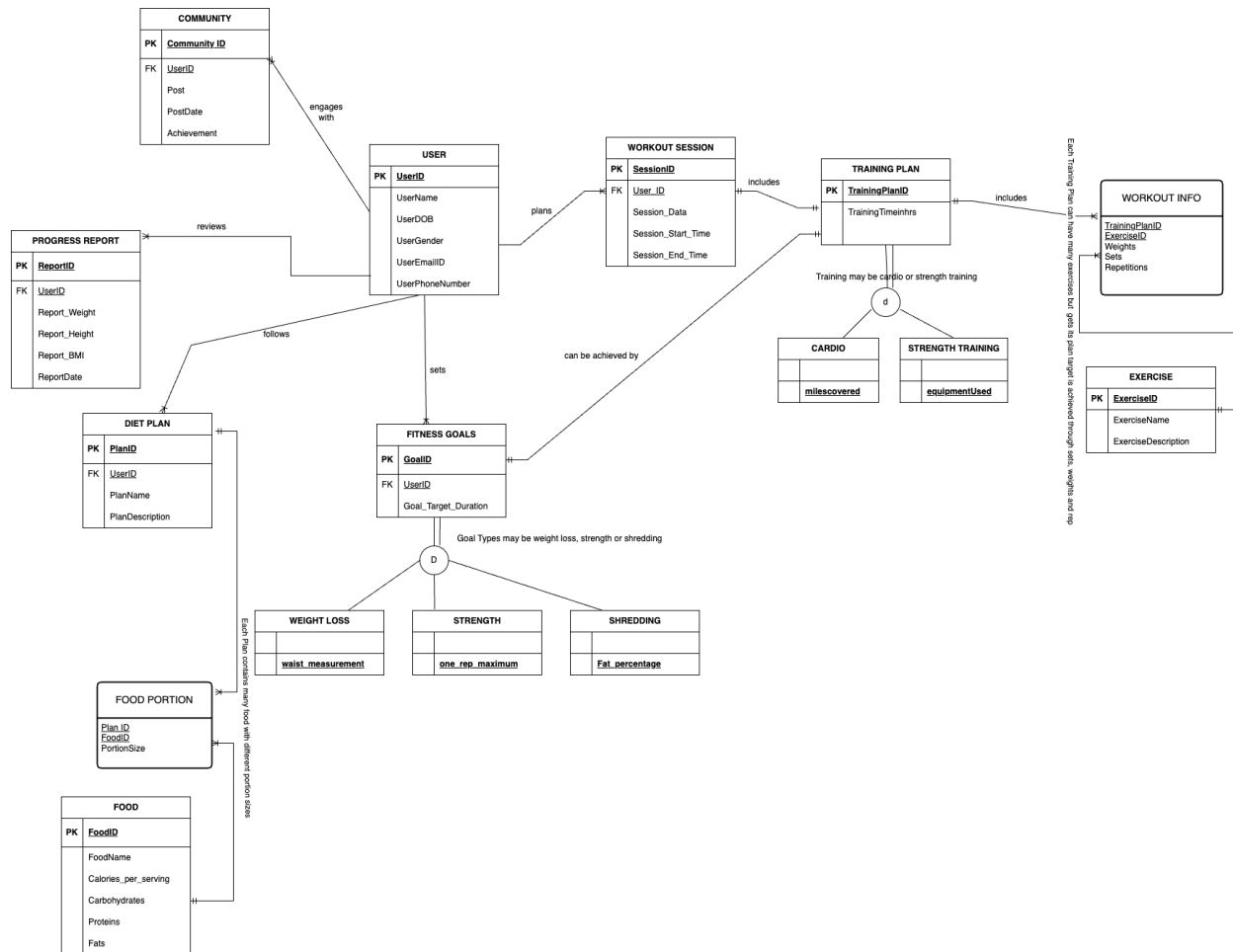


ERD:



Changes:

1. Decomposing a multivalued attribute ie. Goal_Type into WeightLoss, Strength, Shredding.
2. Applied a total specialization rule over Goal_Type, wherein disjoint constraint is specified and user can either choose weightloss, strength or shredding
3. Decomposing the many to many relationship between diet plan and food by creating a weak entity portion_size
4. Applied total specialization rule over training plan, wherein disjoint constraint is specified and user can either choose cardio or strength training

Relationships

- 1) User engages with the one or more community.
- 2) User plans one or many workout sessions
- 3) User reviews Progress report
- 4) User follows a diet plan
- 5) User sets one or many fitness goals

- 6) Decomposing a multivalued attribute ie. Goal_Type into 3 sub types – Weight loss, strength, shredding with a disjoint constraint and partial specialization
- 7) A diet plan contains many foods with different portion sizes.
- 8) A workout session includes a training plan.
- 9) The training plan is of 2 subtypes – cardio and strength training with a disjoint constraint and total specialization
- 10) Fitness goals can be achieved by having a training plan.
- 11) A training plan can have many excercises but gets it's plan target is achieved through set, weights and reps