



- Each **Recipe** is uniquely identified by recipeID and **Ingredient**, **User**, **Rating**, **FilterData**, and has attributes name, description, and steps.
- Each **Ingredient** is uniquely identified by ingredientID and has attributes name.
- Each **User** is uniquely identified by userID and has attributes name.
- Each **Rating** is uniquely identified by ratingID and **User**, and has attributes score, review.
- Each **FilterData** is uniquely identified by filterdataID and has attributes minutes to prepare recipe, number of steps of recipe, tags, and calories.
- **Recipe** should have at least one **Ingredient**, many **Rating**, and exactly one **FilterData**.
- **Ingredient** can have many **Recipe**.

- **User** can write many **Rating**.
- **Rating** should have exactly one **User**.
- **FilterData** should have exactly one **Recipe**.

Recipe (recipeID: INT [PK],
name: VARCHAR(255),
description: VARCHAR(255),
steps: VARCHAR(255))

User (userID: INT[PK],
name: VARCHAR(255))

Ingredient (ingredientID: INT[PK],
name: VARCHAR(255))

Rating (ratingID: INT[PK],
recipeID: INT[FK to Recipe.recipeID],
score: Decimal,
review: VARCHAR(255),
userID: INT[FK to User.userID])

Filter Data (filterdataID: INT[PK],
recipeID: INT[FK to Recipe.recipeID],
minutesToPrepare: INT,
numOfSteps: INT,
tags: VARCHAR(255),
calories: INT))

Contains (containsID: INT[PK],
recipeID: INT[FK to Recipe.recipeID],
ingredientID: INT[FK to Ingredient.ingredientID])