The database consists of 12 tables that help to define users, recipes, and the details of each recipe, including user created ratings. The database file size is around 75 megabytes, with another 750 megabytes of space needed for picture storage. It is an offline in-application database that can be updated when required by an administrative member.

User: contains login information for each user

* UserID: the primary key used to relate users to specific recipe ratings
* Username: the login name for the specified user
* Password: the login password for the specified user

Ratings: contains a list of each individual rating made by each user

* RatingID: the primary key used to denote specific ratings
* UserID: foreign key used to relate a user to the rating
* RecipeID: foreign key used to relate a recipe to the rating
* Cost: numerical rating of how expensive the user found making the recipe to be
* Ease: numerical rating of how easy the user found making the recipe to be
* Liked: numerical rating of how well the user appreciated the taste of the recipe

The recipe data object used in the application is built using the following 10 tables:

Recipe: contains all single value details of the recipe.

* RecipeID: the primary key used to relate all multiple value details from other tables
* Title: The title of the recipe
* URL: the url of the recipe where the information was drawn from
* PrepTime: the preparation time of the recipe
* TotalTime: the full cooking time for the recipe
* Servings: the total amount of servings that the recipe provides
* Summary: an explanation of the recipe
* ServingSize: nutritional value- serving size
* Calories: nutritional value- calories
* CalFat: nutritional value- calories from fat
* TotFat: nutritional value- total fat
* SatFat: nutritional value- saturated fat
* TransFat: nutritional value- trans fat
* Cholesterol: nutritional value- cholesterol
* Sodium: nutritional value- sodium
* Carbs: nutritional value- carbohydrates
* Fiber: nutritional value- fiber
* Sugar: nutritional value- sugars
* Protein: nutritional value- protein
* VitA: nutritional value- vitamin A
* VitC: nutritional value- vitamin C
* Calcium: nutritional value- calcium
* Iron: nutritional value- iron

Category: contains all of the possible categories that each recipe can be a part of

* CategoryID: the primary key used to relate categories to recipes
* Category: the actual category name

RecipeCategory: Linking table between Recipe table and Category table

* RecCatID: the primary key used to denote specific relationships
* RecipeID: foreign key used to relate recipes
* CategoryID: foreign key used to relate categories

Tip: contains special tips written for certain recipes, not always present

* TipID: the primary key used to relate tips to recipes
* Tip: the actual tip

RecipeTip: Linking table between Recipe table and Tip table

* RecTipID: the primary key used to denote specific relationships
* RecipeID: foreign key used to relate recipes
* TipID: foreign key used to relate tips

Ingredient: contains all ingredients used in all of the recipes

* IngredientID: the primary key used to relate ingredients to recipes
* Ingredient: the actual ingredient

RecipeIngredient: Linking table between Recipe table and Ingredient table

* RecIngID: the primary key used to denote specific relationships
* RecipeID: foreign key used to relate recipes
* IngredientID: foreign key used to relate ingredients

Instruction: contains all instructions used in all of the recipes

* InstructionID: the primary key used to relate instructions to instruction steps
* Instruction: the actual instruction

RecipeInstructionStep: contains the instruction and its step number in a recipe

* RecInstStepID: the primary key used to relate instruction steps to recipes
* StepID: the numbered step that this instruction is for a given recipe (instructions must be in order for each recipe)
* InstructionID: foreign key used to relate instructions

RecipeInstruction: Linking table between Recipe table and RecipeInstructionStep table

* RecInstID: the primary key used to denote specific relationships
* RecipeID: foreign key used to relate recipes
* RecInstStepID: foreign key used to relate instruction steps