

BrainStorming

Users:

- Name
- Birthdate
- Email
- Password
- Number of Posts

Recipes:

- Recipe Name
- Ingredients
- Instructions
- Who posted
- Time Posted
- Public or Private

Grocery List:

- User
- Ingredients
- Time Added

Occasions:

- User
- Recipes
- Date Posted
- Time of Occasion

Table Ideas

Users:

- User_id
- User_birthdate
- User_email
- User_password

Recipes:

- recipe_id
- Recipe_name
- [Recipe_author_id](#)
- Recipe_text_content
- Recipe_image_content

- recipe_created
- Recipe_is_private

GroceryLists:

- Groceylist_author_id
- Grocerylist_name
- Time Created

Occasions:

- occasion_creator_id
- Date_created
- date_of_occasion

Ingredients:

- ingredient_id
- Ingredient_name

Recipe_ingredients

- recipe_ingredient_id
- Recipe_id
- Ingredient_id

Occasion_recipes

- Occasion_recipe_id
- occasion_id
- recipe_id

grocery_list_items:

- Grocery_list_item_id
- grocery_list_id
- ingredient_id

Relationship

One-to-one

- N/A

One-to-many

- User \Rightarrow Recipe
 - One user can be related to many recipes but a single recipe cannot pertain to many users.
- User \Rightarrow Grocery List
 - Same reason as user \Rightarrow recipe
- User \Rightarrow Occasion
 - Same reason as user \Rightarrow recipe

Many-to-many

- Recipe \Leftrightarrow Ingredients
 - A single recipe can have a multitude of ingredients, and a single ingredient can be in an array of recipes.
- Occasion \Leftrightarrow Recipes
 - Same reason as recipe \Leftrightarrow ingredients
- Grocery List \Leftrightarrow Ingredients
 - Same reason as recipe \Leftrightarrow ingredients

SQL Code

```
Table "users" {  
  "user_id" int [pk, increment]  
  "user_birthday" DATE [not null]  
  "user_email" VARCHAR(50)  
  "user_password" VARCHAR(500)  
}
```

```
Table "recipes" {  
  "recipe_id" int [pk, increment]  
  "recipe_name" VARCHAR(100) [not null]  
  "recipe_author" INT [not null]  
  "recipe_text_content" VARCHAR(3000) [not null]  
  "recipe_image_content" TEXT [not null]  
  "recipe_created" timestamp [not null]  
  "recipe_is_private" BOOLEAN [not null, default: true]  
}
```

```
Table "ingredients" {  
  "ingredient_id" int [pk, increment]
```

```
"ingredient_name" VARCHAR(50)
}
```

```
Table "grocerylists" {
  "grocerylist_id" int [pk, increment]
  "grocerylist_name" VARCHAR(20) [not null]
  "grocerylist_author_id" INT [not null]
  "grocerylist_created" timestamp [not null]
}
```

```
Table "occasions" {
  "occasion_id" int [pk, increment]
  "occasion_creator_id" INT [not null]
  "date_of_occasion" DATE [not null]
  "occasion_created" timestamp [not null]
}
```

```
Table "recipe_ingredients" {
  "recipe_ingredient_id" int [pk, increment]
  "recipe_id" INT [not null]
  "ingredient_id" INT [not null]
}
```

```
Table "occasion_recipes" {
  "occasion_recipe_id" int [pk, increment]
  "occasion_id" INT [not null]
  "recipe_id" INT [not null]
}
```

```
Table "grocerylist_items" {
  "grocerylist_item_id" int [pk, increment]
  "grocerylist_id" INT [not null]
  "ingredient_id" INT [not null]
}
```

Ref:"users"."user_id" < "recipes"."recipe_author"

Ref:"users"."user_id" < "grocerylists"."grocerylist_author_id"

Ref:"users"."user_id" < "occasions"."occasion_creator_id"

Ref:"recipes"."recipe_id" < "recipe_ingredients"."recipe_id"

Ref:"ingredients"."ingredient_id" < "recipe_ingredients"."ingredient_id"

Ref:"occasions"."occasion_id" < "occasion_recipes"."occasion_id"

Ref:"recipes"."recipe_id" < "occasion_recipes"."recipe_id"

Ref:"grocerylists"."grocerylist_id" < "grocerylist_items"."grocerylist_id"

Ref:"ingredients"."ingredient_id" < "grocerylist_items"."ingredient_id"