Brandon Loveall and Hyrum Sorensen

Brainstorming

USER TABLE:

User id

Username (email)

Password hash

RECIPES:

Recipe id

Creator id

Recipe name

Ingredients id

Recipe instructions

Public or private

INGREDIENTS TABLE:

Ingredient id

Ingredient name

GROCERY LIST TABLE:

Grocery id

Owner id

Ingredients id

OCCASIONS TABLE

Occasion id

Occasion member ids

Occasion recipe id

BRIDGE TABLES:

INGREDIENTS/RECIPES TABLE
INGREDIENTS/GROCERY LIST TABLE
OCCASIONS/USERS TABLE

Relationships:

Occasions ←Many⇒ Users

Ingredients ← Many ⇒ Recipes

Ingredients ← Many ⇒ Grocery Lists

Occasions can have multiple users and vice versa. Ingredients can belong to many grocery lists/recipes and recipes/grocery lists can have multiple ingredients.

```
User ⇒Many⇒ Recipes
User ⇒One⇒ Grocery list
Our SQL Code:
CREATE TABLE "users" (
 "user id" SERIAL PRIMARY KEY,
 "email_address" VARCHAR(50),
 "password_hash" VARCHAR(1000)
);
CREATE TABLE "recipes" (
 "recipe_id" SERIAL PRIMARY KEY,
 "name" VARCHAR(50),
 "creator id" INT NOT NULL,
 "private" BOOL
);
CREATE TABLE "ingredients" (
 "ingredient id" SERIAL PRIMARY KEY,
 "name" VARCHAR(50)
);
CREATE TABLE "grocery list" (
 "grocery_list_id" SERIAL PRIMARY KEY,
 "owner" INT NOT NULL
);
CREATE TABLE "occasions" (
 "occasion id" SERIAL PRIMARY KEY,
 "occasion_date" VARCHAR(20),
 "occasion location" VARCHAR(100),
 "occasion_description" VARCHAR(2000),
 "owner id" INT NOT NULL
);
CREATE TABLE "recipe ingredients" (
 "recipe ingredients id" SERIAL PRIMARY KEY,
 "recipe_id" INT NOT NULL,
```

```
"ingredient id" INT NOT NULL
);
CREATE TABLE "list ingredients" (
 "list ingredients id" SERIAL PRIMARY KEY,
 "grocery list id" INT NOT NULL,
 "ingredient id" INT NOT NULL
);
CREATE TABLE "user occasions" (
 "user occasions id" SERIAL PRIMARY KEY,
 "occasion id" INT NOT NULL,
 "user id" INT NOT NULL
);
ALTER TABLE "recipes" ADD FOREIGN KEY ("creator_id") REFERENCES "users" ("user_id");
ALTER TABLE "grocery list" ADD FOREIGN KEY ("owner") REFERENCES "users" ("user id");
ALTER TABLE "occasions" ADD FOREIGN KEY ("owner id") REFERENCES "users"
("user_id");
ALTER TABLE "recipe ingredients" ADD FOREIGN KEY ("recipe id") REFERENCES "recipes"
("recipe id");
ALTER TABLE "recipe ingredients" ADD FOREIGN KEY ("ingredient id") REFERENCES
"ingredients" ("ingredient_id");
ALTER TABLE "list ingredients" ADD FOREIGN KEY ("grocery list id") REFERENCES
"grocery_list" ("grocery_list_id");
ALTER TABLE "list ingredients" ADD FOREIGN KEY ("ingredient id") REFERENCES
"ingredients" ("ingredient_id");
ALTER TABLE "user occasions" ADD FOREIGN KEY ("occasion id") REFERENCES
"occasions" ("occasion id");
```

ALTER TABLE "user occasions" ADD FOREIGN KEY ("user id") REFERENCES "users"

("user_id");