

Part 1: Conceptual Planning

Brainstorm:

- User login info (email/password)
- User's recipes (can share with other users or make private)
- User's grocery list
- User's occasions

Table Ideas:

Users: hold user info (name, login, user id)

Auth: hold login info (email/password)

Recipes: holds each users recipes (ingredients list, text-instructions), public or private

Grocery lists: holds ingredients for user's recipes

Occasions: hold each users special occasions (birthday, Thanksgiving, Christmas, etc)

Relationships:

One to One:

- Users to auth
- Users to Grocery list

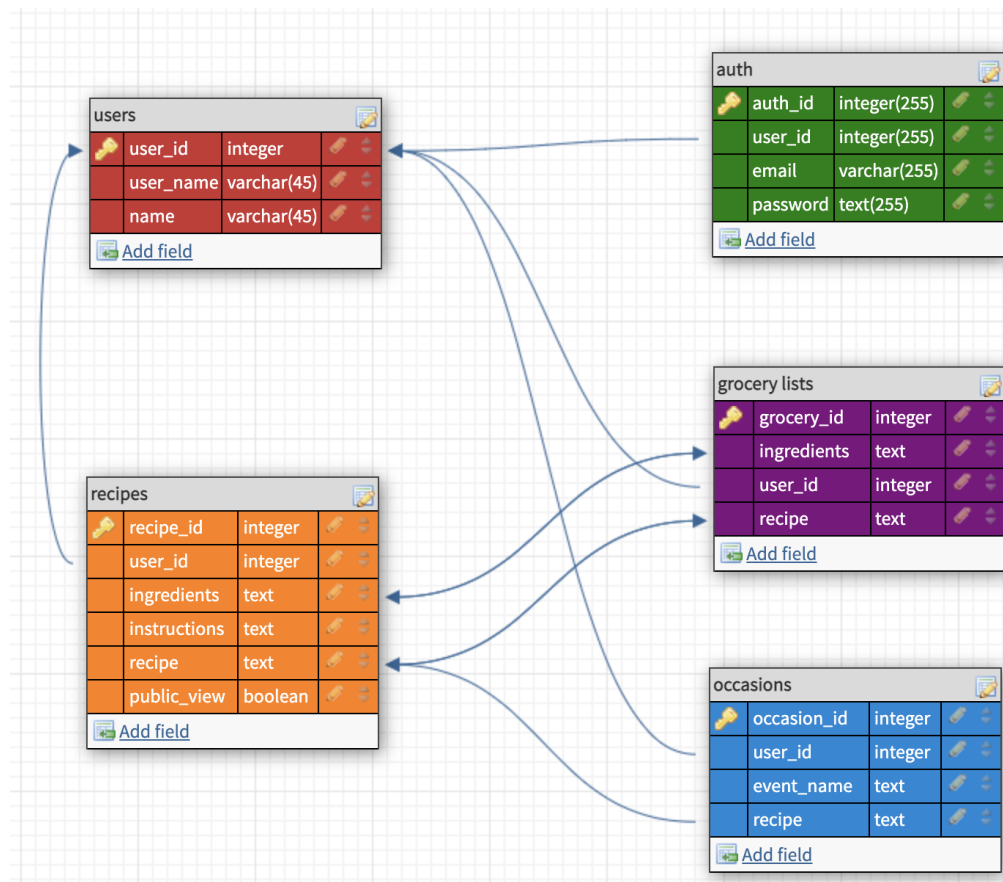
One to Many:

- Users to Recipes
- Users to Occasions
- Recipes to Grocery list

Many to Many:

- Recipes to Occasions

Part: 2 Table Planning



Recipes:

Needs to be linked to a user

Must have ingredients list and instructions

Name for the recipe

Public view sets as boolean so users can set recipes to private or public

Ingredients linked to ingredients in 'Grocery lists'

Recipe name also linked to recipe in 'Grocery lists'

Grocery list:

Needs to be linked to a user

Must have ingredients list, also linked to ingredients in 'Recipes'

Recipe name also linked to recipe in 'Recipes'

Occasions:

Needs to be linked to a user

Must have event name (birthday, Christmas, etc)

Recipe name also linked to recipe in 'Recipes'

Users & Auth:

Stores username, and actual name. Linked to store sensitive login info (password).

Part 3: Create Tables in SQL

```
CREATE TABLE "public.users" (  
    "user_id" serial NOT NULL,  
    "user_name" varchar(45) NOT NULL UNIQUE,  
    "name" varchar(45) NOT NULL,  
    CONSTRAINT "users_pk" PRIMARY KEY ("user_id")  
) WITH (  
    OIDS=FALSE  
) ;
```

```
CREATE TABLE "public.auth" (  
    "auth_id" serial(255) NOT NULL,  
    "user_id" integer(255) NOT NULL,  
    "email" varchar(255) NOT NULL UNIQUE,  
    "password" TEXT(255) NOT NULL UNIQUE,  
    CONSTRAINT "auth_pk" PRIMARY KEY ("auth_id")  
) WITH (  
    OIDS=FALSE  
) ;
```

```
CREATE TABLE "public.recipes" (  
    "recipe_id" serial NOT NULL,  
    "user_id" integer NOT NULL,  
    "ingredients" TEXT NOT NULL,  
    "instructions" TEXT NOT NULL,  
    "recipe" TEXT NOT NULL,  
    "public_view" BOOLEAN NOT NULL,  
    CONSTRAINT "recipes_pk" PRIMARY KEY ("recipe_id")  
) WITH (  
    OIDS=FALSE  
) ;
```

```
CREATE TABLE "public.grocery lists" (  
    "grocery_id" serial NOT NULL,  
    "ingredients" TEXT NOT NULL,  
    "user_id" integer NOT NULL,  
    "recipe" TEXT NOT NULL,  
    CONSTRAINT "grocery lists_pk" PRIMARY KEY ("grocery_id")  
) WITH (  
    OIDS=FALSE  
) ;
```

```
CREATE TABLE "public.occasions" (  
    "occasion_id" serial NOT NULL,  
    "user_id" integer NOT NULL,  
    "event_name" TEXT NOT NULL,  
    "recipe" TEXT NOT NULL,  
    CONSTRAINT "occasions_pk" PRIMARY KEY ("occasion_id")  
) WITH (  
    OIDS=FALSE  
);
```

```
ALTER TABLE "auth" ADD CONSTRAINT "auth_fk0" FOREIGN KEY ("user_id")  
REFERENCES "users"("user_id");
```

```
ALTER TABLE "recipes" ADD CONSTRAINT "recipes_fk0" FOREIGN KEY  
("user_id") REFERENCES "users"("user_id");  
ALTER TABLE "recipes" ADD CONSTRAINT "recipes_fk1" FOREIGN KEY  
("ingredients") REFERENCES "grocery lists"("ingredients");  
ALTER TABLE "recipes" ADD CONSTRAINT "recipes_fk2" FOREIGN KEY  
("recipe") REFERENCES "grocery lists"("recipe");
```

```
ALTER TABLE "grocery lists" ADD CONSTRAINT "grocery lists_fk0"  
FOREIGN KEY ("ingredients") REFERENCES "recipes"("ingredients");  
ALTER TABLE "grocery lists" ADD CONSTRAINT "grocery lists_fk1"  
FOREIGN KEY ("user_id") REFERENCES "users"("user_id");  
ALTER TABLE "grocery lists" ADD CONSTRAINT "grocery lists_fk2"  
FOREIGN KEY ("recipe") REFERENCES "recipes"("recipe");
```

```
ALTER TABLE "occasions" ADD CONSTRAINT "occasions_fk0" FOREIGN KEY  
("user_id") REFERENCES "users"("user_id");  
ALTER TABLE "occasions" ADD CONSTRAINT "occasions_fk1" FOREIGN KEY  
("recipe") REFERENCES "recipes"("recipe");
```