

Tables:

- Recipes: this table will hold all the recipes name, descriptions, cook time, prep time, with its ingredients and instructions.
- Ingredients: this table will hold all the ingredients id and name available.
- Instructions: this table will hold instructions id, number and descriptions needed to cook different recipes.
- Grocery: this table will hold all ingredients available for purchase.
- Occasions: this table will hold all recipes for different occasions. Each row will have different occasions with several recipes.

Relationships:

- One-to-one: Ingredients, Instructions, Occasions and Grocery.
- One-to-Many: Recipes
- Many-to-Many:

TABLES SQL CODE:

Ingredients table:

```
CREATE TABLE ingredients(  
  ingredients_ID serial primary key,  
  ingredient_name varchar(255)  
);
```

Instructions:

```
CREATE TABLE instructions(  
  instructions_ID serial primary key,  
  instruction_number int,  
  instruction_description varchar(255)  
);
```

Recipes:

```
CREATE TABLE recipes(  
  recipes_ID serial primary key,  
  recipe_name varchar(50),  
  recipe_description varchar(50),  
  prep_time time(50),  
  cook_time time(50),  
  instructions_ID int references instructions(instructions_ID)  
  ingredients_ID int references ingredients(ingredients_ID)  
);
```

Occasion:

```
CREATE TABLE occassion(  
  occassion_ID serial primary key,
```

```
occassion_name varchar(50),  
recipes_ID int references recipes(recipes_ID)  
);
```

Grocery Cart:

```
CREATE TABLE grocerycart(  
grocerycart_ID serial primary key,  
ingredients_ID int references ingredients(ingredients_ID)  
);
```