

CPSC 304 Project Cover Page

Milestone #: 4

Date: Mar 31,2024

Group Number: 52

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Link to Repository:

https://github.students.cs.ubc.ca/CPSC304-2023W-T2/project_k7v0w_m3b8j_t9k1b

Project Description: Our domain focuses on nutrition and personal meal management. We are creating a web application that allows users to discover recipes, manage their meal plans, and keep track of their grocery needs. Relating to culinary arts, we will provide ingredient combinations, and serving suggestions. In terms of nutrition, we will provide nutritional content and health aspects of recipes such as macronutrient/micronutrient distributions. For meal management, users can plan and organise meals and their grocery shopping to maintain a balanced diet for all types of dietary preferences and restrictions.

Script: The script we will be running is mealprep.sql

Schema changes:

NONE

Final Schema:

Primary keys are underlined, foreign keys are bolded.

- User(userID: int, name: varchar, email: varchar, username: varchar)
- Recipe(recipeID: int, name: varchar, category: varchar, instructions: varchar)
- Category(name)
- VegetarianRecipe(recipeID: int)
- LowCalorieRecipe(recipeID: int)
- SugarFreeRecipe(recipeID: int)
- Ingredient(name: varchar, isVegetarian: BOOLEAN)
- nutritionInfoRecipe(calories: int, sugar: int, proteinContent: int, fatContent: int, carbContent: int, **recipeID**: int)
- nutritionInfoIngredient(calories: int, sugar: int, proteinContent: int, fatContent: int, carbContent: int, **ingredientName**: varchar)
- MealPlan(mealPlanID: int, name: varchar, date: date, **userID**: int)
- ShoppingList(shoppingListID, **mealPlanID**, recipeID, ingredientName)
- Rating(ratingID: int, score: int, **userID**: int, **recipeID**: int)
- Review(reviewID: int, date: date, message: varchar, **userID**: int, **recipeID**: int)
- saves(**userID**: int, **recipeID**: int)
- recipeContains(**recipeID**: int, **ingredientName**: varchar)
- mealPlanContains(**mealPlanID**: int, **recipeID**: int)
- listContains(**shoppingListID**: int, **ingredientName**: varchar)

A list of all SQL queries used and where it can be found in the code (i.e., file name and line number(s)). For SQL query requirements, check the rubric listed on Canvas for Milestone 4.

SQL QUERIES USED:

Insert: Insert meal plan for user

```
INSERT INTO MealPlan (name, date, userID) VALUES (?, ?, ?)
```

Location: Services/mealplan.service.ts: line 33

Delete: Delete meal plan

```
DELETE FROM MealPlan WHERE mealPlanID = ?
```

Location: Services/mealplan.service.ts: line 59

Update: Edit meal plan name

```
UPDATE MealPlan SET name = ? WHERE mealPlanID = ?
```

Location: Services/mealplan.service.ts: line 79

Selection: get meal plans based on userid

```
SELECT * FROM meal plan WHERE userID = ?
```

Location: Services/mealplan.service.ts: line 14

Projection: get nutrition info from recipe

```
SELECT recipeID, calories, proteinContent, sugar, fatContent, carbContent  
FROM nutritionInfoRecipe  
WHERE recipeID = ?;
```

Location: Services/recipe.service.ts line 133

Join: get reviews

```
SELECT *  
FROM Review  
JOIN Recipe ON Review.recipeID = Recipe.recipeID  
WHERE Review.recipeID = ?;
```

Location: Location: Services/recipe.service.ts line 115

Aggregation with Group by: get recipe ratings for each recipe, group by rating

```
SELECT r.recipeID, r.name, COUNT(*) AS rating_count, ra.score  
FROM recipe AS r  
JOIN rating AS ra ON r.recipeID = ra.recipeID  
WHERE r.recipeID = ?  
GROUP BY r.recipeID, r.name, ra.score;
```

Location: services/recipe.service.ts line 94

Aggregation with Having: Search that can apply filters, and min rating having score >= ?

```
SELECT r.*, AVG(ra.score) AS avgRating
FROM recipe r
JOIN SugarFreeRecipe sf ON r.recipeID = sf.recipeID
JOIN LowCalorieRecipe lc ON r.recipeID = lc.recipeID
JOIN VegetarianRecipe v ON r.recipeID = v.recipeID
LEFT JOIN Rating ra ON r.recipeID = ra.recipeID
WHERE (r.name LIKE '%recipeName%' OR '%recipeName%' = '')
  AND (sf.recipeID IS NOT NULL OR '%sugarFree%' = 'false')
  AND (lc.recipeID IS NOT NULL OR '%lowCalorie%' = 'false')
  AND (v.recipeID IS NOT NULL OR '%vegetarian%' = 'false')
GROUP BY r.recipeID
HAVING (AVG(ra.score) >= minRating OR minRating IS NULL);
```

Location: recipe.service.ts Line 153

Nested Aggregation with GROUP BY: Show average rating for each recipe

```
SELECT r.recipeID, r.name, r.instructions, avg_rating.average_rating
FROM recipe AS r
INNER JOIN (
  SELECT recipeID, AVG(score) AS average_rating
  FROM rating
  GROUP BY recipeID
) AS avg_rating
ON r.recipeID = avg_rating.recipeID;
```

Location: services/recipe.service.ts line 73

Division: Select users where they have reviewed every recipe

```
SELECT userID, name
FROM User
WHERE NOT EXISTS (
  SELECT recipeID
  FROM Recipe
  WHERE NOT EXISTS (
    SELECT *
    FROM Review
    WHERE Review.userID = User.userID
    AND Review.recipeID = Recipe.recipeID
  )
)
```

Location: services/user.service.ts line 29

Screenshots demonstrating the functionality of each query using the GUI. We want to see a before/during/after progression of events. For example, the before screenshot would be what data is in the table before you run the query, the during screenshot(s) is how the query is triggered using the GUI, and the after screenshot is what data is in your table afterwards. Please label each set of screenshots with the name of the query it is meant to address (e.g., “Insert Operation”).

***Note:** the red lines help to indicate what is being pressed, not part of actual web app

Insert: Insert meal plan for user

Before:

Meal Plans Page			
NEWPLAN	Add Meal Plan		
Normal Plan	Recipes	Shopping List	Delete Meal Plan
Vegan Plan	Recipes	Shopping List	Delete Meal Plan
Vegetarian Plan	Recipes	Shopping List	Delete Meal Plan
Low Sugar Plan	Recipes	Shopping List	Delete Meal Plan

After:

Enter meal plan name	Add Meal Plan		
Normal Plan	Recipes	Shopping List	Delete Meal Plan
Vegan Plan	Recipes	Shopping List	Delete Meal Plan
Vegetarian Plan	Recipes	Shopping List	Delete Meal Plan
Low Sugar Plan	Recipes	Shopping List	Delete Meal Plan
NEWPLAN	Recipes	Shopping List	Delete Meal Plan

Delete: Delete meal plan

Before:

Enter meal plan name	Add Meal Plan		
Normal Plan	Recipes	Shopping List	<u>Delete Meal Plan</u>
Vegan Plan	Recipes	Shopping List	Delete Meal Plan
Vegetarian Plan	Recipes	Shopping List	Delete Meal Plan
Low Sugar Plan	Recipes	Shopping List	Delete Meal Plan
NEWPLAN	Recipes	Shopping List	Delete Meal Plan

After:

<input type="text" value="Enter meal plan name"/>	<button>Add Meal Plan</button>		
Vegan Plan	Recipes	Shopping List	Delete Meal Plan
Vegetarian Plan	Recipes	Shopping List	Delete Meal Plan
Low Sugar Plan	Recipes	Shopping List	Delete Meal Plan
NEWPLAN	Recipes	Shopping List	Delete Meal Plan

Update: Edit meal plan name

Before:

<input type="text" value="Enter meal plan name"/>	<button>Add Meal Plan</button>		
Vegan Plan	Recipes	Shopping List	Delete Meal Plan
Vegetarian Plan	Recipes	Shopping List	Delete Meal Plan
Low Sugar Plan	Recipes	Shopping List	Delete Meal Plan
NEWPLAN	Recipes	Shopping List	Delete Meal Plan

After:

<input type="text" value="Enter meal plan name"/>	<button>Add Meal Plan</button>		
Vegan Planet Plan	Recipes	Shopping List	Delete Meal Plan
Vegetarian Plan	Recipes	Shopping List	Delete Meal Plan
Low Sugar Plan	Recipes	Shopping List	Delete Meal Plan
NEWPLAN	Recipes	Shopping List	Delete Meal Plan

Selection: get meal plans based on userid

Before:

Home	Recipes	Meal Plans	joe ▾
Meal Plans Page			
<input type="text" value="Enter meal plan name"/>	<button>Add Meal Plan</button>		
Vegan Planet Plan	Recipes	Shopping List	Delete Meal Plan
Vegetarian Plan	Recipes	Shopping List	Delete Meal Plan
Low Sugar Plan	Recipes	Shopping List	Delete Meal Plan
NEWPLAN	Recipes	Shopping List	Delete Meal Plan

After:

Meal Plans Page

Enter meal plan name

Add Meal Plan

Protein Plan

Recipes

Shopping List

Delete Meal Plan

Projection: get nutrition info from recipe

Before:

Recipes Page

Search for a recipe

Select Min Rating

☐ Sugar Free

☐ Low Calorie

☐ Vegetarian

Search

Pizza	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan
Pasta	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan
Burger	Rating: 2.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan
Fries	Rating: 3.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan
Grilled Cheese Sandwich	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan
Salad	Rating: 4.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan
Vegetarian Pasta	Rating: 3.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan

After:

Recipes Page

Search for a recipe

Select Min Rating

☐ Sugar Free

☐ Low Calorie

☐ Vegetarian

Search

Pizza	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan
Pasta	Rating: 4.0/5	<div>Nutrition Info Calories: 500 Sugar: 10 Protein: 10 Fat: 10 Carbs: 10 Close</div>		Nutrition Info	Add to Meal Plan
Burger	Rating: 2.8/5			Nutrition Info	Add to Meal Plan
Fries	Rating: 3.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan
Grilled Cheese Sandwich	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan
Salad	Rating: 4.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan
Vegetarian Pasta	Rating: 3.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan

Join: get reviews
Before:

Recipes Page					
<input type="text" value="Search for a recipe"/>		Select Min Rating ▾	<input type="checkbox"/> Sugar Free	<input type="checkbox"/> Low Calorie	<input type="checkbox"/> Vegetarian <input type="button" value="Search"/>
Pizza	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Pasta	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Burger	Rating: 2.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Fries	Rating: 3.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Grilled Cheese Sandwich	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Salad	Rating: 4.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Vegetarian Pasta	Rating: 3.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾

After:

Recipes Page					
<input type="text" value="Search for a recipe"/>		Select Min Rating ▾	<input type="checkbox"/> Sugar Free	<input type="checkbox"/> Low Calorie	<input type="checkbox"/> Vegetarian <input type="button" value="Search"/>
Pizza	Rating: 4.0/5	<div>Reviews Date: 2024-03-01T08:00:00.000Z - Review: Good Date: 2024-03-11T07:00:00.000Z - Review: Decent Date: 2024-03-12T07:00:00.000Z - Review: Average Date: 2024-04-18T07:00:00.000Z - Review: Perfect Date: 2024-04-21T07:00:00.000Z - Review: Loved it Date: 2024-04-24T07:00:00.000Z - Review: Amazing Date: 2024-04-01T07:00:00.000Z - Review: Great pizza! <input type="button" value="Close"/></div>		Nutrition Info	Add to Meal Plan ▾
Pasta	Rating: 4.0/5			Nutrition Info	Add to Meal Plan ▾
Burger	Rating: 2.8/5			Nutrition Info	Add to Meal Plan ▾
Fries	Rating: 3.8/5			Nutrition Info	Add to Meal Plan ▾
Grilled Cheese Sandwich	Rating: 4.0/5		Reviews	Recipe	Nutrition Info Add to Meal Plan ▾
Salad	Rating: 4.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Vegetarian Pasta	Rating: 3.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾

Aggregation with Group by: get recipe ratings, group by rating

Before:

Recipes Page					
Search for a recipe		Select Min Rating ▾	<input type="checkbox"/> Sugar Free	<input type="checkbox"/> Low Calorie	<input type="checkbox"/> Vegetarian <input type="button" value="Search"/>
Pizza	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Pasta	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Burger	Rating: 2.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Fries	Rating: 3.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Grilled Cheese Sandwich	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Salad	Rating: 4.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Vegetarian Pasta	Rating: 3.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾

inserted a review with 5 stars

After:

Home	Recipes	Meal Plans	Choose User ▾
Recipes Page			
Search for a recipe		Select Min Rating ▾	<input type="checkbox"/> Sugar Free <input type="checkbox"/> Low Calorie <input type="checkbox"/> Vegetarian <input type="button" value="Search"/>
Pizza	Rating: 4.1/5	Reviews	Recipe Nutrition Info Add to Meal Plan ▾
Pasta	Rating: 4.0/5	Reviews	Recipe Nutrition Info Add to Meal Plan ▾
Burger	Rating: 2.8/5	Reviews	Recipe Nutrition Info Add to Meal Plan ▾
Fries	Rating: 3.8/5	Reviews	Recipe Nutrition Info Add to Meal Plan ▾
Grilled Cheese Sandwich	Rating: 4.0/5	Reviews	Recipe Nutrition Info Add to Meal Plan ▾
Salad	Rating: 4.8/5	Reviews	Recipe Nutrition Info Add to Meal Plan ▾
Vegetarian Pasta	Rating: 3.0/5	Reviews	Recipe Nutrition Info Add to Meal Plan ▾

Aggregation with Having: Search that can apply filters, and min rating having score >= ?

Before:

Recipes Page					
Search for a recipe	2	<input checked="" type="checkbox"/> Sugar Free <input checked="" type="checkbox"/> Low Calorie <input checked="" type="checkbox"/> Vegetarian	Search		
Pizza	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Pasta	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Burger	Rating: 2.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Fries	Rating: 3.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Grilled Cheese Sandwich	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Salad	Rating: 4.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Vegetarian Pasta	Rating: 3.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾

After:

Recipes Page					
Search for a recipe	2	<input checked="" type="checkbox"/> Sugar Free <input checked="" type="checkbox"/> Low Calorie <input checked="" type="checkbox"/> Vegetarian	Search		
Sugar Free Fries	Rating: 3.7/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾

Nested Aggregation with GROUP BY: Show average rating for each recipe

Before:

Recipes Page					
Search for a recipe	Select Min Rating ▾	<input type="checkbox"/> Sugar Free <input type="checkbox"/> Low Calorie <input type="checkbox"/> Vegetarian	Search		
Pizza	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Pasta	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Burger	Rating: 2.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Fries	Rating: 3.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Grilled Cheese Sandwich	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Salad	Rating: 4.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Vegetarian Pasta	Rating: 3.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾

inserted a review with 5 stars

After:

Home	Recipes	Meal Plans	Choose User ▾
------	---------	------------	---------------

Recipes Page					
Search for a recipe	Select Min Rating ▾	<input type="checkbox"/> Sugar Free	<input type="checkbox"/> Low Calorie	<input type="checkbox"/> Vegetarian	Search

Pizza	Rating: 4.1/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Pasta	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Burger	Rating: 2.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Fries	Rating: 3.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Grilled Cheese Sandwich	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Salad	Rating: 4.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾
Vegetarian Pasta	Rating: 3.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ▾

Division: Select users where they have reviewed every recipe

Triggered on page load in GUI:

Before:

User table:

userID	name	email	username
1	Joe	joe@email.com	joe
2	Jay	jay@email.com	jay
3	Kohen	kohen@email.com	kohen
4	George	george@email.com	george
5	Jeff	jeff@email.com	jeff
6	Alice	alice@email.com	alice
7	Bob	bob@email.com	bob
8	Jimbo	jimbo@email.com	Jimbo
9	Lebron	lebron@email.com	lebron
10	Emily	emily@email.com	emily
11	Frank	frank@email.com	frank
12	Grace	grace@email.com	grace

12 rows in set (0.01 sec)

After query:

```
mysql> SELECT userID, name
-> FROM User
-> WHERE NOT EXISTS (
->   SELECT recipeID
->   FROM Recipe
->   WHERE NOT EXISTS (
->     SELECT *
->     FROM Review
->     WHERE Review.userID = User.userID
->     AND Review.recipeID = Recipe.recipeID
->   )
-> );
```

userID	name
9	Lebron

1 row in set (0.00 sec)

In GUI:
Before:

Home	Recipes	Meal Plans	joe ▾
Meal Plans Page			joe
Enter meal plan name			jay
Add Meal Plan			kohen
			george
			jeff
Normal Plan	Recipes	Shopping List	alice
			bob
			Jimbo
Vegan Plan	Recipes	Shopping List	lebron
			emily
			frank
			grace
Vegetarian Plan	Recipes	Shopping List	
Low Sugar Plan	Recipes	Shopping List	Delete Meal Plan

added review for lebron

After (star denotes super reviewer who has reviewed all recipes):

Home	Recipes	Meal Plans	joe ▾
Meal Plans Page			joe
Enter meal plan name			jay
Add Meal Plan			kohen
			george
			jeff
Normal Plan	Recipes	Shopping List	alice
			bob
			Jimbo
Vegan Plan	Recipes	Shopping List	☆ lebron
			emily
			frank
			grace
Vegetarian Plan	Recipes	Shopping List	
Low Sugar Plan	Recipes	Shopping List	Delete Meal Plan

Schema changes:

NONE

Final Schema:

Primary keys are underlined, foreign keys are bolded.

- User(userID: int, name: varchar, email: varchar, username: varchar)
- Recipe(recipeID: int, name: varchar, category: varchar, instructions: varchar)
- Category(name)
- VegetarianRecipe(recipeID: int)
- LowCalorieRecipe(recipeID: int)
- SugarFreeRecipe(recipeID: int)
- Ingredient(name: varchar, isVegetarian: BOOLEAN)
- nutritionInfoRecipe(calories: int, sugar: int, proteinContent: int, fatContent: int, carbContent: int, **recipeID**: int)
- nutritionInfoIngredient(calories: int, sugar: int, proteinContent: int, fatContent: int, carbContent: int, **ingredientName**: varchar)
- MealPlan(mealPlanID: int, name: varchar, date: date, **userID**: int)
- ShoppingList(shoppingListID, mealPlanID, recipeID, ingredientName)
- Rating(ratingID: int, score: int, **userID**: int, **recipeID**: int)
- Review(reviewID: int, date: date, message: varchar, **userID**: int, **recipeID**: int)
- saves(**userID**: int, **recipeID**: int)
- recipeContains(**recipeID**: int, **ingredientName**: varchar)
- mealPlanContains(**mealPlanID**: int, **recipeID**: int)
- listContains(**shoppingListID**: int, **ingredientName**: varchar)

SCREENSHOTS OF DATA PRESENT FROM MYSQL

TABLES:

```
mysql> show tables;
```

Tables_in_304_project
Category
Ingredient
listContains
LowCalorieRecipe
MealPlan
mealPlanContains
nutritionInfoIngredient
nutritionInfoRecipe
Rating
Recipe
recipeContains
Review
saves
ShoppingList
SugarFreeRecipe
User
VegetarianRecipe

17 rows in set (0.04 sec)

USER:

	userID	name	email	username
	1	Joe	joe@email.com	joe
	2	Jay	jay@email.com	jay
	3	Kohen	kohen@email.com	kohen
	4	George	george@email.com	george
	5	Jeff	jeff@email.com	jeff
	6	Alice	alice@email.com	alice
	7	Bob	bob@email.com	bob
	8	Jimbo	jimbo@email.com	Jimbo
	9	Lebron	lebron@email.com	lebron
	10	Emily	emily@email.com	emily
	11	Frank	frank@email.com	frank
	12	Grace	grace@email.com	grace

12 rows in set (0.01 sec)

Ingredient:

name	isVegetarian
Beef	0
Cheese	1
Chicken	0
Dough	1
Lettuce	1
Noodles	1
Olive Oil	1
Pepper	1
Pepperoni	0
Quinoa	1
Rice	1
Salt	1
Tomato	1

13 rows in set (0.00 sec)

Recipe: (selection done without instructions in order to conserve space)

recipeid	name
1	Pizza
2	Pasta
3	Burger
4	Fries
5	Grilled Cheese Sandwich
6	Salad
7	Vegetarian Pasta
8	Vegetarian Pizza
9	Vegetarian Burger
10	Quinoa
11	Low Calorie Pizza
12	Low Calorie Pasta
13	Sugar Free Pizza
14	Sugar Free Pasta
15	Sugar Free Burger
16	Sugar Free Fries
17	Sugar Free Sandwich
18	Tomato Soup
19	Cheese Pizza
20	Chicken Rice

20 rows in set (0.00 sec)

Mealplan:

mealPlanID	name	date	userID
1	Normal Plan	2024-03-01	1
2	Protein Plan	2024-03-02	2
3	Vegetarian Plan	2024-03-03	3
4	Vegan Plan	2024-03-04	4
5	Low Sugar Plan	2024-03-05	5
6	Vegan Plan	2024-04-01	1
7	Vegetarian Plan	2024-04-02	1
8	Low Sugar Plan	2024-04-03	1
9	Emily Plan	2024-04-18	10
10	Frank Plan	2024-04-19	11
11	Grace Plan	2024-04-20	12
12	Lebron Plan	2024-01-01	9

12 rows in set (0.00 sec)

Category:

name	category
Burger	Fast Food
Cheese Pizza	Italian
Chicken Rice	Clean
Fries	Fast Food
Grilled Cheese Sandwich	Sandwich
Low Calorie Pasta	Italian
Low Calorie Pizza	Italian
Pasta	Italian
Pizza	Italian
Quinoa	Grain
Salad	Salad
Sugar Free Burger	Fast Food
Sugar Free Fries	Fast Food
Sugar Free Pasta	Italian
Sugar Free Pizza	Italian
Sugar Free Sandwich	Sandwich
Tomato Soup	Soup
Vegetarian Burger	Fast Food
Vegetarian Pasta	Italian
Vegetarian Pizza	Italian

20 rows in set (0.00 sec)

VegetarianRecipe:

recipeID
4
6
7
8
9
10
16
18
19

9 rows in set (0.01 sec)

LowCalorieRecipe:

recipeID
6
7
8
9
11
12
13
14
15
16
17
18
20

13 rows in set (0.00 sec)

SugarFreeRecipe:

recipeID
10
13
14
15
16
17

6 rows in set (0.01 sec)

NutritionInfoRecipe:

recipeID	calories	sugar	proteinContent	fatContent	carbContent
1	500	10	10	10	10
2	500	20	20	20	20
3	300	30	30	30	30
4	400	40	40	40	40
5	500	50	50	50	50
6	250	15	5	5	30
7	350	10	12	15	40
8	400	20	10	20	45
9	450	25	15	25	50
10	150	0	8	2	25
11	280	5	10	10	30
12	220	4	9	8	35
13	300	0	11	12	40
14	180	0	7	5	20
15	350	0	20	15	30
16	200	0	2	10	25
17	250	0	9	8	28
18	100	2	3	1	15
19	350	5	15	10	40
20	400	10	30	15	100

20 rows in set (0.00 sec)

NutritionInfoIngredient:

ingredientName	calories	sugar	proteinContent	fatContent	carbContent
Beef	400	40	40	40	40
Cheese	100	1	7	8	2
Chicken	500	50	50	50	50
Dough	100	2	2	2	100
Lettuce	1	0	0	0	10
Noodles	200	20	20	20	20
Olive Oil	100	2	0	50	0
Pepper	1	2	1	0	9
Pepperoni	200	5	10	50	2
Quinoa	100	0	2	0	50
Rice	100	10	10	10	10
Salt	300	30	30	30	30
Tomato	20	3	1	0	5

13 rows in set (0.00 sec)

RecipeContains:

recipeID	ingredientName
2	Beef
3	Beef
1	Cheese
1	Dough
2	Noodles
1	Olive Oil
1	Pepperoni
1	Salt
1	Tomato

9 rows in set (0.00 sec)

Mealplancontains:

mealPlanID	recipeID
1	1
1	2
2	3
3	6
6	6
7	8
4	10
6	10
5	11
8	13
8	14
8	15
12	20

13 rows in set (0.00 sec)

ShoppingList:

shoppingListID	mealPlanID
1	1
2	1
3	2
4	3
5	4
6	5
7	6
8	6
9	7
10	8
11	8
12	8
13	12
14	12

14 rows in set (0.00 sec)

listContains:

shoppingListID	ingredientName
2	Beef
12	Beef
2	Chicken
1	Dough
6	Lettuce
1	Noodles
4	Noodles
11	Noodles
1	Olive Oil
1	Pepperoni
6	Quinoa
3	Rice
1	Salt
1	Tomato
7	Tomato
9	Tomato
10	Tomato

17 rows in set (0.00 sec)

Rating:

ratingID	score	userID	recipeID
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	5	1	6
7	4	2	7
8	3	3	8
9	2	4	9
10	1	5	10
11	4	6	1
12	3	7	1
13	5	6	2
14	4	7	2
16	2	8	3
17	5	6	4
18	4	7	4
20	2	8	5
21	5	6	6
22	4	7	6
24	2	8	7
25	5	6	8
26	4	7	8
28	2	8	9
29	5	6	10
30	4	7	10
32	2	8	11
33	5	6	12
34	4	7	12
36	2	8	13
37	5	6	14
38	4	7	14
40	2	8	15
41	5	6	16
42	4	7	16
44	2	8	17
45	5	6	18
46	4	7	18
48	2	8	19
49	5	10	1
50	4	10	2
51	3	10	3
52	5	11	1
53	4	11	2
54	3	11	3
55	5	12	1
56	4	12	2
57	3	12	3
58	5	9	1
59	5	9	2
60	3	9	3
61	2	9	4
62	5	9	5
63	5	9	6
64	3	9	7
65	2	9	8
66	5	9	9

REVIEW:

reviewID	date	message	userID	recipeID
1	2024-03-01	Good	1	1
2	2024-03-02	Bad	2	2
3	2024-03-03	Amazing	3	3
4	2024-03-04	Terrible	4	4
5	2024-03-05	Spectacular	5	5
6	2024-03-06	Okay	1	6
7	2024-03-07	Not bad	2	7
8	2024-03-08	Great	3	8
9	2024-03-09	Disappointing	4	9
10	2024-03-10	Outstanding	5	10
11	2024-03-11	Decent	6	1
12	2024-03-12	Average	7	1
13	2024-03-13	Loved it	6	2
14	2024-03-14	Pretty good	7	2
16	2024-03-16	Could be better	8	3
17	2024-03-17	Delicious	6	4
18	2024-03-18	Tasty	7	4
20	2024-03-20	Meh	8	5
21	2024-03-21	Fantastic	6	6
22	2024-03-22	Good choice	7	6
24	2024-03-24	Not bad	8	7
25	2024-03-25	Great!	6	8
26	2024-03-26	Yummy	7	8
28	2024-03-28	Disliked it	8	9
29	2024-03-29	Healthy	6	10
30	2024-03-30	Nutritious	7	10
32	2024-04-01	Too light	8	11
33	2024-04-02	No sugar, great	6	12
34	2024-04-03	Miss the sugar	7	12
36	2024-04-05	Lacking flavor	8	13
37	2024-04-06	Nice	6	14
38	2024-04-07	Not for me	7	14
40	2024-04-08	Bland	8	15
41	2024-04-10	Crispy	6	16
42	2024-04-11	Too crispy	7	16
44	2024-04-13	Too plain	8	17
45	2024-04-11	Refreshing	6	18
46	2024-04-14	Lacks depth	7	18
48	2024-04-20	Too cheesy	8	19
49	2024-04-18	Perfect	10	1
50	2024-04-19	Great taste	10	2
51	2024-04-20	Good	10	3
52	2024-04-21	Loved it	11	1
53	2024-04-22	Nice flavor	11	2
54	2024-04-23	Decent	11	3
55	2024-04-24	Amazing	12	1
56	2024-04-25	Tasty	12	2
57	2024-04-26	Not bad	12	3
58	2024-04-01	Great pizza!	9	1
59	2024-04-02	Pasta was delicious.	9	2
60	2024-04-03	Burger could be better.	9	3
61	2024-04-04	Fries were too salty.	9	4
62	2024-04-05	Loved the grilled cheese sandwich.	9	5
63	2024-04-06	Salad was fresh and tasty.	9	6
64	2024-04-07	Vegetarian pasta was okay.	9	7
65	2024-04-08	Vegetarian pizza lacked flavor.	9	8
66	2024-04-09	Vegetarian burger was excellent.	9	9
67	2024-04-10	Quinoa was cooked perfectly.	9	10

Saves:

userID	recipeID
1	1
6	1
7	1
2	2
3	3
4	4
5	5
1	6
2	7
3	8
4	9
5	10

12 rows in set (0.00 sec)