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

Location: Services/recipe.service.ts line 133

Join: get reviews

WHERE recipeID = ?;

**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;

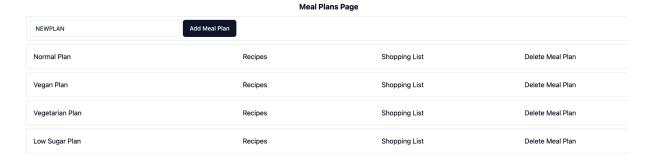
Location: services/recipe.service.ts line 94

```
score >= ?
SELECT r.*, AVG(ra.score) AS avgRating
FROM recipe r
JOIN SugarFreeRecipe sf ON r.recipeID = sf.recipeID
JOIN LowCalorieRecipe Ic ON r.recipeID = Ic.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 (Ic.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
```

Aggregation with Having: Search that can apply filters, and min rating having

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:

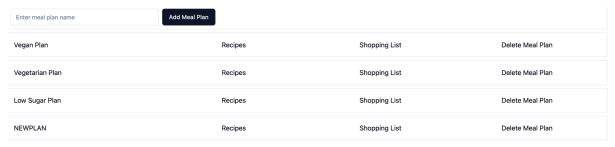


#### After: Add Meal Plan Enter meal plan name Normal Plan Recipes Shopping List Delete Meal Plan Vegan Plan Recipes Shopping List Delete Meal Plan Vegetarian Plan Recipes Shopping List Delete Meal Plan Recipes Shopping List Low Sugar Plan NEWPLAN Recipes Shopping List Delete Meal Plan

**Delete: Delete meal plan** Before:

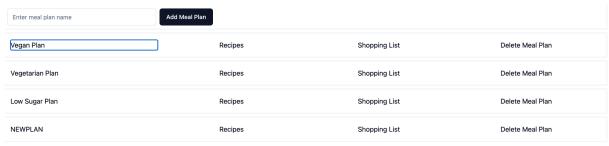
Enter meal plan name	Add Meal Plan		
Normal Plan	Recipes	Shopping List	Delete Meal Plan
Vegan Plan	Recipes	Shopping List	Delete Meal Plan
Vegetarian Plan	Recipes	Shopping List	Delete Meal Plan
Low Sugar Plan	Recipes	Shopping List	Delete Meal Plan
NEWPLAN	Recipes	Shopping List	Delete Meal Plan

### After:

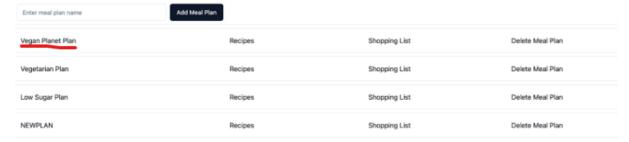


### Update: Edit meal plan name

#### Before:

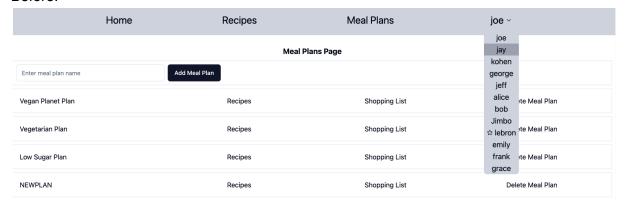


### After:



### Selection: get meal plans based on userid

### Before:



After:



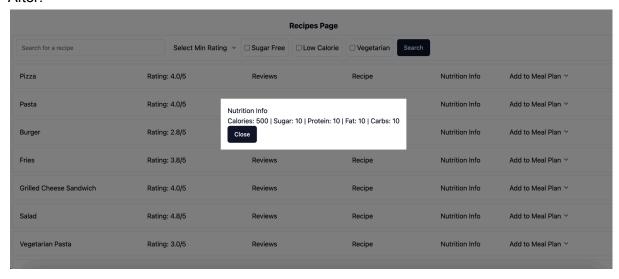
## Projection: get nutrition info from recipe

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 Y
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 Y
Grilled Cheese Sandwich	Rating: 4.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan Y
Salad	Rating: 4.8/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan Y
Vegetarian Pasta	Rating: 3.0/5	Reviews	Recipe	Nutrition Info	Add to Meal Plan ~

### After:

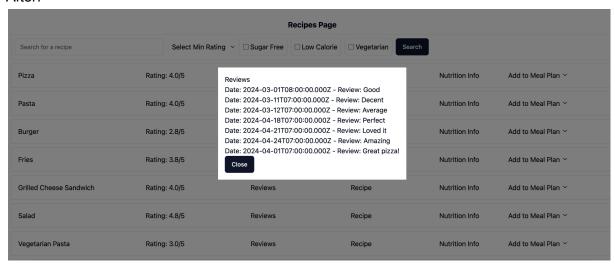


### Join: get reviews

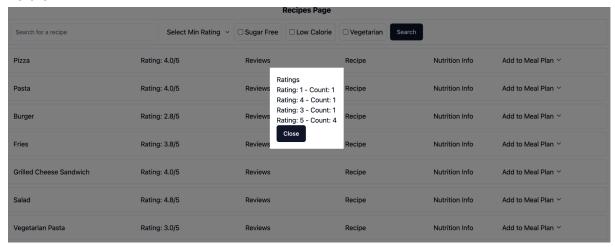
Before:

#### **Recipes Page** Select Min Rating ∨ □ Sugar Free □ □ Low Calorie □ Vegetarian □ Search Search for a recipe Rating: 4.0/5 Pizza Reviews Nutrition Info Add to Meal Plan ~ Recipe Pasta Rating: 4.0/5 Reviews Recipe Nutrition Info Add to Meal Plan $\,\,^{\checkmark}$ Rating: 2.8/5 Nutrition Info Add to Meal Plan ~ Burger Reviews Recipe 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 Y Vegetarian Pasta Rating: 3.0/5 Reviews Recipe Nutrition Info Add to Meal Plan ~

#### After:

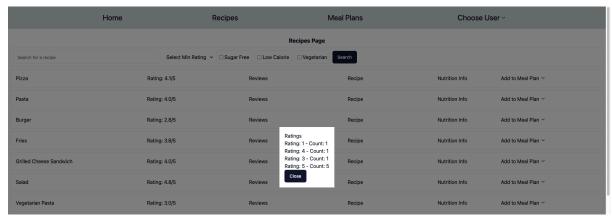


#### Before:



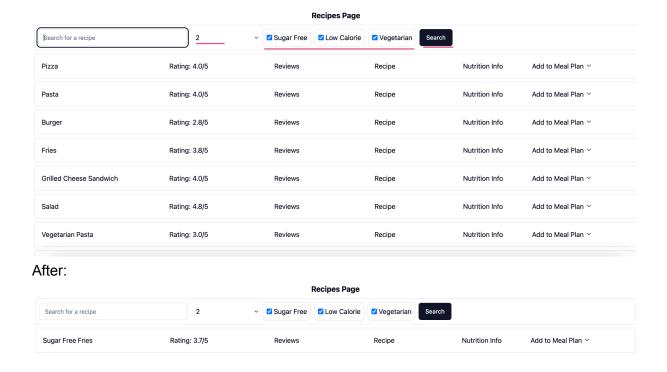
<sup>\*\*</sup>inserted a review with 5 stars\*\*

### After:

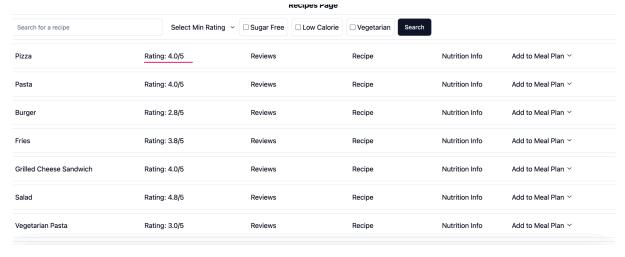


Aggregation with Having: Search that can apply filters, and min rating having score >= ?

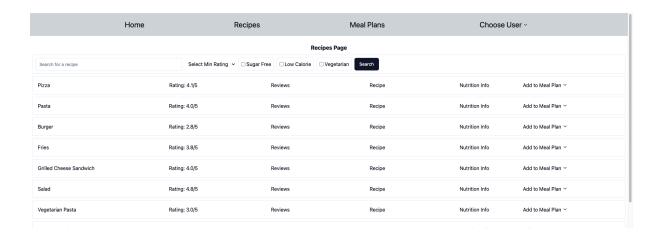
Before:



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



<sup>\*\*</sup>inserted a review with 5 stars\*\*
After:



### Division: Select users where they have reviewed every recipe

Triggered on page load in GUI:

#### Before:

User table:

```
userID
                         email
             name
                                                 username
                         joe@email.com
             Joe
                                                  joe
        2345678
                         jay@email.com
kohen@email.com
                                                 jay
kohen
              Jay
             Kohen
                         george@email.com
              George
                                                  george
              Jeff
                         jeff@email.com
                                                  jeff
             Alice
                         alice@email.com
                                                 alice
              Bob
                         bob@email.com
                                                 bob
                         jimbo@email.com
lebron@email.com
              Jimbo
                                                  Jimbo
        9
              Lebron
                                                  lebron
                         emily@email.com
frank@email.com
grace@email.com
             Emily
Frank
       10
                                                 emily
       11
12
                                                  frank
             Grace
                                                 grace
12 rows in set (0.01 sec)
```

### After query:

### In GUI: Before:

	Home	Recipes	Meal Plans	joe ×
Enter meal plan name		Meal	Plans Page	joe jay kohen george
Normal Plan		Recipes	Shopping List	jeff alice te Meal Plan
Vegan Plan		Recipes	Shopping List	Jimbo lebron <sup>te Meal Plan</sup> emily
Vegetarian Plan		Recipes	Shopping List	frank ste Meal Plan
Low Sugar Plan		Recipes	Shopping List	Delete Meal Plan

<sup>\*\*</sup>added review for lebron\*\*

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

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

### Schema changes:

#### NONE

#### Final Schema:

Primary keys are underlined, foreign keys are bolded.

- User(<u>userID</u>: int, name: varchar, email: varchar, username: varchar)
- Recipe(<u>recipeID</u>: int, name: varchar, category: varchar, instructions: varchar)
- Category(<u>name</u>)
- VegetarianRecipe(<u>recipeID</u>: int)
- LowCalorieRecipe(<u>recipeID</u>: int)
- SugarFreeRecipe(<u>recipeID</u>: int)
- Ingredient(<u>name</u>: varchar, isVegetarian: BOOLEAN)
- nutritionInfoRecipe(<u>calories</u>: <u>int</u>, <u>sugar</u>: <u>int</u>, <u>proteinContent</u>: <u>int</u>, <u>fatContent</u>: <u>int</u>, <u>carbContent</u>: <u>int</u>, <u>recipeID</u>: <u>int</u>)
- nutritionInfoIngredient(<u>calories: int, sugar: int, proteinContent: int, fatContent: int, carbContent: int, ingredientName:varchar</u>)
- MealPlan(mealPlanID: int, name: varchar, date: date, userID: int)
- ShoppingList(<u>shoppingListID,mealPlanID</u>,recipeID,ingredientName)
- Rating(ratingID: int, score: int, userID: int, recipeID: int)
- Review(<u>reviewID</u>: int, date: date, message: varchar, userID: int, recipeID: int)
- saves(<u>userID</u>: <u>int</u>, <u>recipeID</u>: <u>int</u>)
- recipeContains(recipeID: int, ingredientName: varchar)
- mealPlanContains(<u>mealPlanID</u>: <u>int</u>, <u>recipeID</u>:<u>int</u>)
- 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	
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 j
j 6	Alice	alice@email.com	alice
j 7	Bob	bob@email.com	j bob j
j 8	Jimbo	jimbo@email.com	Jimbo
j 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	j 0 j
Dough	1
Lettuce	1
Noodles	1
Olive Oil	1
Pepper	1
Pepperoni	0
Quinoa	1
Rice	1
Salt	1
Tomato	1
+ 13 rows in se	+ et (0.00 sec)

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

recipeid	name
1	Pizza
j 2	Pasta
	Burger
j 4	Fries
j 5	Grilled Cheese Sandwich
j 6	Salad
j 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 s	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 j
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
.2 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

### VegetarianRecipe:

vogota iam too.p	<u> </u>
recipeID	
++	
4	
6	
7	
8	
j 9 j	
10	
j 16 j	
18	
j 19 j	
++	
9 rows in set	(0.01 sec)

### LowCalorieRecipe:

### SugarFreeRecipe:

recipeID
10
13
14
15
16
17
++
6 rows in set (0.01 sec)

### NutritionInfoRecipe:

•	calories	Suyai	proteinContent	Tatcontent	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

### **NutritionInfolngredient:**

ingredientName	calories	sugar	proteinContent	fatContent	carbContent
Beef	400	   40	40	40	   40
Cheese	100	1	7	8	2
Chicken	500	50	50	50	j 50 j
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
+					

### RecipeContains:

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

### Mealplancontains:

+	
mealPlanID	recipeID
1	1
1	2
j 2	j 3 j
j 3	j 6 j
1   2   3   6	i 6 i
j 7	i 8 i
j 4	i 10 i
j 6	i 10 i
6   5	11
j 8	13
j 8	14
j 8	15
12	j 20 j
+	++
13 rows in set	t (0.00 sec)

### **ShoppingList:**

shoppingListID	mealPlanID
1	1
i 2 i	
; ; ; 4 ;	1   2   3   4   5
j 4 j	3 j
j 5 j	4
j 6 j	5
j 7 j	6
8	6   7
9	
10	8
11	8
12	8
13	12
14	12
14 rows in set (0.	00 sec)

### listContains:

shoppingListID	ingredientName
	 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

## Rating:

+	+	+	++
ratingID	score	userID	recipeID
1		1	1
] 2	<u> </u>	<u> </u>	1     2
j 3	3	j 3 J 4	3
j 4 j 5	4	4	4
6	5	5	5     6
j 7	4	į - 2	į į
j 8	j 3	ј з	j 8 j
j 9	] 2	2   3   4   5   6   7   6	9
j 10 j 11	1 1	5	j 10 j j 1 j
12	4	0	1
13	1 5	, , , 6	2
14	j 4	7	j 2 j
j 16	] 2	j 8	j 3 j
17	5	8   6   7	4
j 18 j 20	1 4	j 7   8	4     5
20	5 4 3 2 1 4 3 5 4 2 5 4 2 5 4 2 5 4 2 5 4 2 5 4 2 5	8   6	1
22	4	ž	j 6 j   6 j
24	j 2	j 8	j 7 j
25	5	j 6	j 8 j
26	! 4	7	8
28	1 2	; 8   6	9     10
30	1 4	7	10
32	1 2	7   8	11
j 33	j 5	j 6	11     12
34	4	j 7	12     13
j 36	] 2	j 8	13     14
37 38	3	j 6 J 7	14     14
40	1 7	6   7   8   6   7	15
j 41	j 5	j 6	16
j 42	1 4	6   7	j 16 j
1 44	] 2	j 8   6	17
i 45	] 3	j 6 J 7	18     18
48	1 7	7   8	18     19
j 49	j 5	10	
j 50	4	j 10	] 2
j 51	2 5 4 2 5 4 2 5 4 2 5 4 2 5 4 2 5 4 2 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 4 3 5 5 4 3 5 5 4 3 5 5 4 3 5 5 4 3 5 5 4 3 5 5 4 3 5 5 5 4 3 5 5 5 5	10	] 3     1
j 52 j 53	5	j 11   11	
54	1 3	11	2     3
j 55	j 5	i 12	1
j 56	j 4	i 12	j 2 j
57 58	3	12	2     3     1
56   57   58   59   60   61   62   63	į 5	9	1 1
59	5	9	2
61	3	9	4 1
62	j 5	j 9	5
62   63	j 5	j 9	6 j
64	] 3	12 9 9 9 9 9 9 9	2   3   1   2   3   4   5   6   7
j 65 I 66	3 5 5 3 2 5 5 5 3 2 5 5	12   12   9   9   9   9   9	2   3   4   5   6   7   8   9
1 66	1 5	9	9 1

### **REVIEW:**

, 5 4 5 5 5 5 5 6				
reviewID	   date	message	userID	   recipeID
1	2024-03-01		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	0kay	1	[ 6 [
7	2024-03-07	Not bad Great	2	7
8	2024-03-08   2024-03-09		3   4	8     9
10	2024-03-09   2024-03-10	Disappointing   Outstanding	5	9
11	2024-03-10	Decent	6	1 1
12	2024-03-11	Average	7	1
13	2024-03-12	Loved it	l 6	2 1
14	2024-03-14	Pretty good	7	. 2
16	2024-03-16	Could be better	8	3 1
17	2024-03-17	Delicious	6	i 4 i
18	2024-03-18	Tasty	i 7	i 4 i
20	2024-03-20	Meh	j 8	i 5 i
j 21 j	2024-03-21	Fantastic	j 6	j 6 j
j 22 i	2024-03-22	Good choice	j 7	j 6 j
j 24 j	2024-03-24	Not bad	j 8	j 7 j
j 25 j	2024-03-25	Great!	j 6	j 8 j
26	2024-03-26	Yummy	7	j 8 j
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     44	2024-04-11	Too crispy	7	16
44	2024-04-13   2024-04-11	Too plain   Refreshing	8   6	17     18
45		Lacks depth	7	18     18
48	2024-04-14	Too cheesy	8	16     19
49	2024-04-18	Perfect	10	
50	2024-04-19	Great taste	10	
51	2024-04-20	Good	10	3 1
52	2024-04-21	Loved it	11	i i
53	2024-04-22	Nice flavor	11	į <u>-</u>
54	2024-04-23	Decent	111	3 i
55	2024-04-24	Amazing	12	į į
56	2024-04-25	Tasty	12	j 2 j
57	2024-04-26	Not bad	j 12	ј з ј
58	2024-04-01	Great pizza!	j 9	j 1 j
59	2024-04-02	Pasta was delicious.	j 9	j 2 j
60	2024-04-03	Burger could be better.	j 9	j 3 j
61	2024-04-04	Fries were too salty.	j 9	j 4 j
62	2024-04-05	Loved the grilled cheese sandwich.	j 9	j 5 j
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:

<b>4</b>	
userID	recipeID
1	1
i 6	1
i 7	1
j 2	1   2
і з	і зі
i 4	3   4   5   6   7
i 5	5 i
i 1	6 i
j 2	7 1
ј з	8
4	9
1   6   7   2   3   4   5   1   2	10
+	·
12 rows in	n set (0.00 sec)