

Part 1 Brainstorming & Part 2 table ideas

Users

- user_id
- Fname
- Lname
- Email
- password
- Address
- Phone number

Recipes

- Recipe_id
- Recipe name
- Ingredient list_id
- Instructions_id
- Private

User_Recipe

- user_receipe_Id
- Users-id
- receipe_id

Ingredients

- Ingredients_id
- Ingredient type
- measurements_id

Ingredient_Recipes

- Id
- Users_ID
- Receipe_id

Instructions_List

- instructions_id
- Recipe_id
- method

Grocery_lists

- grocery_list_Id
- User_id
- recipe_id
- Ingredient_id
- grocery_list

Occasions

- occasions_id
- User_id
- Recipes_id
- Occasion_info_id

Occasion_info

- occasions_info_id
- Name
- Date

Part 3 Relationships

One-to-one

- **Occasions_info** to Occasions, because every occasion needs its own id that contains info like name and date. Then this id can be used in the Occasions table where it links to the user_id and recipe_id that is being used for that Occasion.
- **Instructions_List** to Recipes, because every instruction list needs a method which can be separated out of the recipe table, but linked to the recipe through recipe_id.

One-to-many

- **Recipes** to Ingredients list, Instructions list because each recipe has ingredients list and instructions list, which can be sorted in its separate table.
- **Grocery_list** to Users, Ingredients and recipe_id, because every grocery_list needs to contain the user's id who wants to create a grocery list for the recipe that they want to create the grocery for.. This table will enable all the ingredients to be listed from the ingredients_id.
- **Users_Recipes** to Users, Recipes, so that there is a table that displays what recipes users have.
- **Ingredient_Receipe** to Ingredient, Recipes so that each recipe shows the ingredients that it has.
- **Occasions** to Users, Recipes, Occasions_Info so that each occasion has the user id and recipe id that the user wants to use for that occasion. The details of the occasion are stored in a separate table called Occasions Info.

Part 4

Write out the tables' columns and explain what data type and why that was chosen for each column.

Users						
user_id	lname	fname	email	password	address	phone_number
Primary Key, integer, auto increment	varchar 50, for a string value	varchar 50, for a string value	varchar 120, for a string value	varchar 25, for a string value	varchar 95, for a string value	Integer 10, for a integer value

Recipes				
recipe_id	recipe_name	ingredients_list_id	Instructions_id	private
Primary Key, integer, auto increment	varchar 50, for a string value	Blob - to told a large object which will be the recipes ingredient body	Blob - to told a large object which will be the recipes instruction body	Boolean so the value will change whether the recipe is private or public

User_Recipes		
user_recipe_id	users_id	receipe_id
Primary Key, integer, auto increment	Foriegn Key (Users table)	Foriegn Key (Recipes table)

Instructions_List		
Instructions_list_id	recipe_id	method
Primary Key, integer, auto increment	Foriegn Key (Recipes table)	Blob - to told a large object which will be the recipes method body

Grogery_List				
Grocery_list_id	user_id	Recipe_id	Ingredient_id	grocery_list
Primary Key, integer, auto increment	Foriegn Key (Users table)	Foriegn Key (Recipes table)	Foriegn Key (Ingredient table)	Blob - to told a large object which will be the grocery list body

Ingredient_Recipes		
Ingredients_list_id	recipe_id	ingredient_id
Primary Key, integer, auto increment	Foriegn Key (Recipes table)	Foriegn Key (Ingredient table)

Ingredient		
ingredient_id	ingredient_type	measurement
Primary Key, integer, auto increment	varchar 50, for a string value	varchar 50, for a string value

Occasions			
occasions_id	user_id	recipe_id	occasions_info_id
Primary Key, integer, auto increment	Foriegn Key (Users table)	Foriegn Key (Recipes table)	Foriegn Key (Occasions info table)

Occasions Info		
occasions_info_id	name	date
Primary Key, integer, auto increment	varchar 50, for a string value	Date data type

