Meal Master

A Simple Meal Scheduling Application

Using :

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Table of Contents

produceSchedule.sh

The script file will:

- Make the C++ application
  - `$ make`
- Ensure that the search_path is set to the correct schema
  - `SET SEARCH_PATH to MealMaster;`
- Run the .sql files
  - `$ psql -U <user> -d <database> -f <filename>.sql`
- Run the C++ application to generate a schedule file
  - `$ ./mealMaster`
- Quality control new schedule; must differ
  - `$ diff oldSchedules.txt newSchedules.txt`
- Clean
  - `$ make clean`

DATABASE DESIGN

Recipes			
ID	RecipeName	MealTypes(ID)	Instructions
PK	VARCHAR	INT REF	TEXT

MealTypes	
ID	RecipeName
PK	VARCHAR

Ingredients	
ID	IngredientName
PK	VARCHAR

RecipeIngredients				
ID	Recipes(ID)	Ingredients(ID)	TotalQty	QtyType
PK	INT REF	INT REF	NUMERIC	VARCHAR

RECIPES.TXT FILE – INPUT – READ FILE

Format for ‘Recipes.txt’:

<RECIPE NAME>
<MEAL TYPE>

- OPTIONS:
    - ‘P’: Poultry
    - ‘R’: Red Meat
    - ‘S’: Seafood
    - ‘G’: Green

<INGREDIENTS>

- <QTY>
- <QTY TPE>
- <INGREDIENT NAME>

<INSTRUCTIONS>

SCHEDULE.TXT FILE – OUTPUT – WRITE FILE

Format for ‘Schedule.txt’:

Monday	Tuesday	Wednesday	Thursday	Friday
Meal 1	Meal 2	Meal 3	Meal 4	Meal 5

SHOPPINGLIST.TXT FILE – OUTPUT – WRITE FILE

Format for ‘ShoppingList.txt’:

<QTY> <QTY TYPE> <INGREDIENT NAME>

PAST.TXT FILE – OUTPUT – WRITE FILE

Format for ‘Past.txt’:

<SCHEDULE COUNT>

```
Meal 1
Meal 2
Meal 3
Meal 4
Meal 5
```