Junior Developer Assessment

Instructions:

- Please write your code in Python.
    - Code can be done as a Notebook or as Python files
- Your code should be well-documented.
- Your code should be easy to understand and maintain.
- You are encouraged to use external libraries if necessary.

Problem Statement:

You are given a CSV file containing information about nutritional facts for fast food restaurants. Your task is to write a Python program to:

1. Read the CSV file and store the data in a database
    1. The DB can be Relational, NoSQL or SQLite
    2. Docker can be used as well just ensure that the migration scripts are in the Dockerfile, Image or in the code
2. Read the data from the database you set up NOT from the CSV
3. Calculate the average, minimum and maximum calories for each restaurant and rank the restaurants by those that have the least amount of carbs on average.
4. Show this data for the Top 5 restaurants as a chart using any Python visualization library
5. Categorize the type of food items as any ONE of the following based on the names of the food and/or the nutrition: Main, Side, Dessert
6. For items categorized as **Main** add a second sub-categorization this time where an item can have ONE OR MORE values of the following: Chicken, Beef, Seafood, Pork, Other
7. Export this information as a CSV file called food_cats.csv

Sample Data:

fastfood.csv

restauran	item	calories	cal_fat	total_fat	sat_fat	trans_fat	cholester	sodium	total_carb	fiber	sugar	protein	vit_a	vit_c	calcium	salad
Mcdonald	Artisan Gr	380	60	7	2	0	95	1110	44	3	11	37	4	20	20	Other
Mcdonald	Single Bac	840	410	45	17	1.5	130	1580	62	2	18	46	6	20	20	Other
Mcdonald	Double Ba	1130	600	67	27	3	220	1920	63	3	18	70	10	20	50	Other
Mcdonald	Grilled Ba	750	280	31	10	0.5	155	1940	62	2	18	55	6	25	20	Other

Submission:

Please submit your code as a Github repository link.

If you have hosted your database please ensure it is reachable.