

Name: _____ ID: _____

Homework #6

Complete By: Wednesday, October 23rd @ 5:00pm

Submission: submitted digitally through codio

Writing SQL

(100 points)

Use the tables in the csv files included in the codio environment as the data to answer the following set of questions. This data has been preloaded for you, and may be reloaded by executing the buildRestaurant.sql and then populateRestaurant.sql files.

For each of the questions in this section, you will write a SQL query that generates the answer to the question. Put your answer into the submission folder in codio and mark the assignment as completed when done.

1. How many Hamburgers can be made with the current stock of tomatoes? Round to the nearest number and label the result NumBurgers.

2. What is the cheapest item on the menu? Include the name and the price.

3. How many recipes are there which use lettuce?
4. Which is the item with the greatest amount in stock? Return the name and assume that all items have the same type (grams).
5. List the ingredients for goulash from smallest amount to largest amount. List both the ingredient name and the quantity. Assume that all ingredients are listed with the quantity type grams.
6. List the dish names from most expensive to least expensive.

7. Return a table containing the dishes alphabetically by their menu category, sorted from most expensive to least expensive within each category. Your result should contain the menu category, the dish name, and price.
8. List the names of all the Cuisine groupings of food served at this restaurant. Order the results by number of dishes in that category from most to least, alphabetically for ties.
9. For each recipe, list the name of the recipe and the number of ingredients necessary to prepare that dish. Label the number of ingredients column numIngredients.
10. List the names of dishes requiring at least 150 grams of beef.

11. For each recipe list the amount of cheese required. For recipes that don't require cheese, leave the quantity and quantity type null.
12. For the recipe for Shawarma platter, list all of the ingredients and the amount required.
13. Suppose that a Shawarma platter has been ordered. Deduct the necessary ingredients to cook the dish from the Stock table.
14. Suppose a dish receives negative reviews and needs to be taken off the menu. Remove the Fish and Chips Dish from the Dishes table.

15. A new chef has been hired and is adding their recipes to the restaurant's repertoire. Add the Egg Toast recipe to the database, whose ingredients are 1 slice of bread and 1 egg.