DATABASES FOR BUSINESS ANALYTICS: Assignment 5

Kristen Sosulski 10/3/2024

For this assignment, please create a GoogleDoc in your .nyu.edu account. Be sure to include your name and clearly label the answers to each question. Then, upload your document from your GoogleDrive to Content > Lesson 5 > Assignment 5 in Brightspace.

**Assignment 5**

Use the Michelin one-star rated restaurant data set from Kaggle: https://www.kaggle.com/datasets/ jackywang529/michelin-restaurants?select=one-star-michelin-restaurants.csv. Download the one-star- michelin-restaurants.csv file. Please open the file in Excel and examine it. Then complete the following and provide answers for each step.

**Step 1.** Format the columns to ensure it has the fields required for the Restaurant table. Be sure to pay attention to those fields that are NOT NULL. You have two choices:

Choice A: Add data for those fields per record. Choice B: Alter the table to eliminate the column constraint.

If you selected CHOICE A: Include a screenshot of the formatted Excel document to show the data added.

表格

描述已自动生成

If you select CHOICE B: Show the SQL code used to alter the table and justify your decision with a “business rule”.

Here is an example of how to modify a column constraint on an existing table:

ALTER TABLE Restaurant MODIFY borough varchar(255);

**Step 2.** Use Excel to omit any records for restaurants not in New York City (You can do this by filtering the data).

Save the file in Excel as a .csv file with utf-8 encoding. This file you save will likely need to be converted from a utf-8 with BOM encoding to utf-8. You use a text editor like BBEdit (on Mac) or Notebook++ (on PC). Use either of these programs to save it in a utf-8 only encoding.

**Step 3.** Use BBEdit or Notepad++ to modify the restaurant names that include unknown characters. For example, Le Grill de Jo\*l Robuchon should be renamed to Le Grill de Joel Robuchon. At least 5 or so places where this data needs to be edited.

Include a screen shot of your formatted restaurant names. 表格

描述已自动生成

**Step 4.** Insert the records into the Restaurant table using the Table Data Import Wizard in MySQLWork- Bench. Write a query to show the new records in the Restaurant table. Include the SQL query and the output as a screenshot.

**Step 5.** Write a query to show the restaurant count by cuisine type. Include the SQL query and the output as a screenshot.

文本

描述已自动生成

背景图案

描述已自动生成

**Step 6.** Describe how you might redesign the database to accommodate different star ratings, such as 1-5 stars versus Michelin stars.

I will design 2 separate columns in INT for star rating and Michelin Stars. For those restaurant dose not has Michelin stars will leave empty on their column of Michelin star. So I can filter the restaurant with 1-5 star by >, < or =, and I can also filter restaurant where =1, 2, or 3 Michelin stars.