

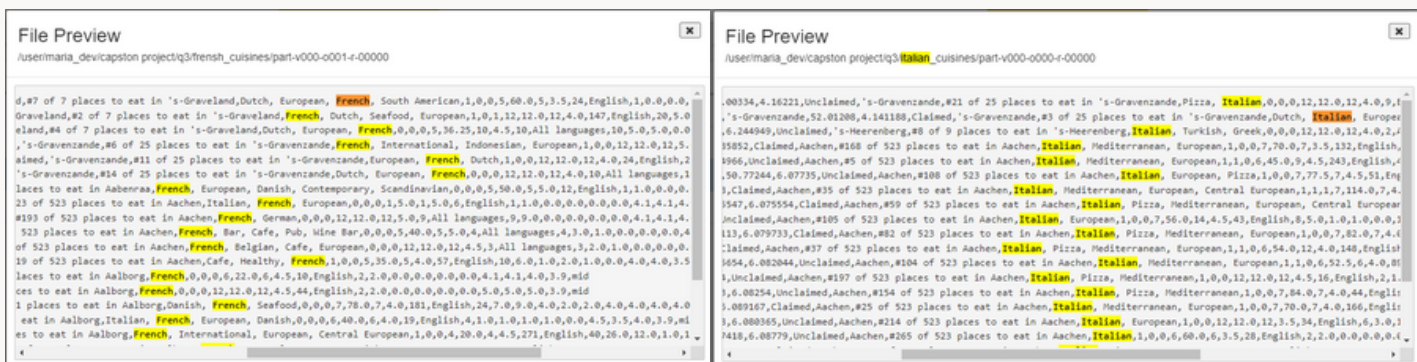
FINAL PROJECT / PIG LATIN TRIPADVISOR EUROPEAN RESTAURANTS

Answer templet

DONE BY: DAQUEST GROUP

Q1

Split the dataset based on cuisines (french or Italian) and store each one in a separate dataset



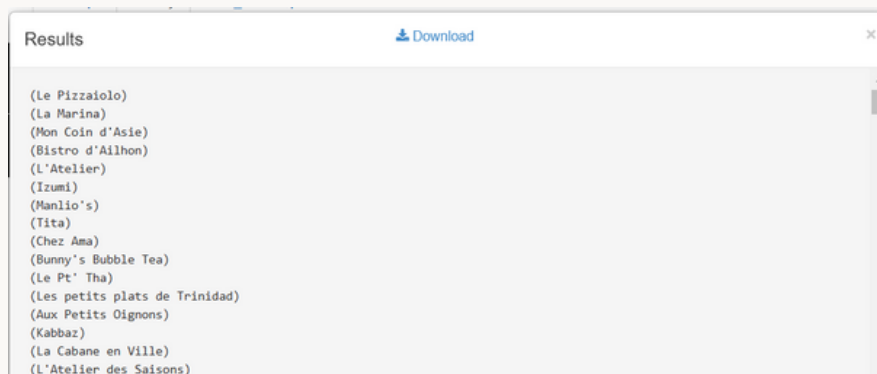
Insights

As the question asked, We want to split the dataset based on the French and Italian cuisines. So we split the data into French and Italian cuisine using the If condition, then we store each of them in a separate file. As a result, we successfully split and save both datasets based on the French and Italian cuisines.

Q2

List the France restaurants that are vegetarian and vegan and have food ratings greater than 4.5

Sample of the results:

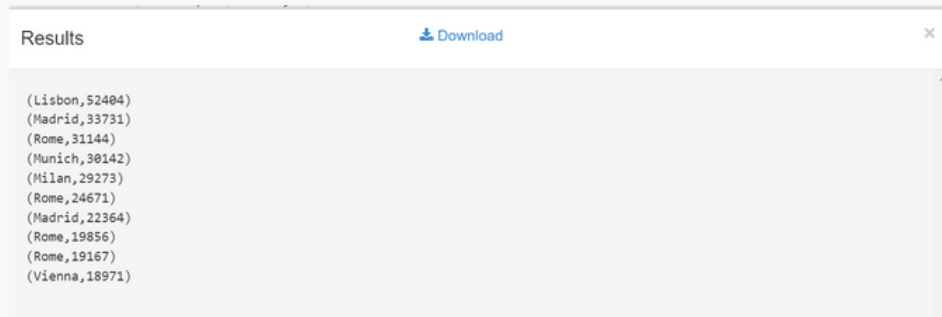


Insights

We want to list restaurants that are located in France, serve vegetarian and vegan food, and the food ratings of more than 4.5. So we filter the data using more than one column, then group them by the restaurant name column. As a result, we got a list of the restaurant located in France and match the conditions.

Q3

List the top 10 cities and order them by total reviews and save the results



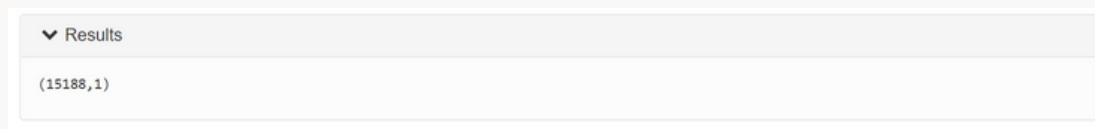
Results
(Lisbon,52484)
(Madrid,33731)
(Rome,31144)
(Munich,30142)
(Milan,29273)
(Rome,24671)
(Madrid,22364)
(Rome,19856)
(Rome,19167)
(Vienna,18971)

Insights

We want to list the top 10 cities and order them by review count as the question asked. So First, select the two columns city and review count. Then we order the review count in descending order and limit the results to 10. As a result, we found that Lisbon has the highest number of reviews and Vienna got the lowest number of reviews.

Q4

Find the Maximum, Minimum total reviews of restaurants located in France and have an average rating of 4.0, and save the results



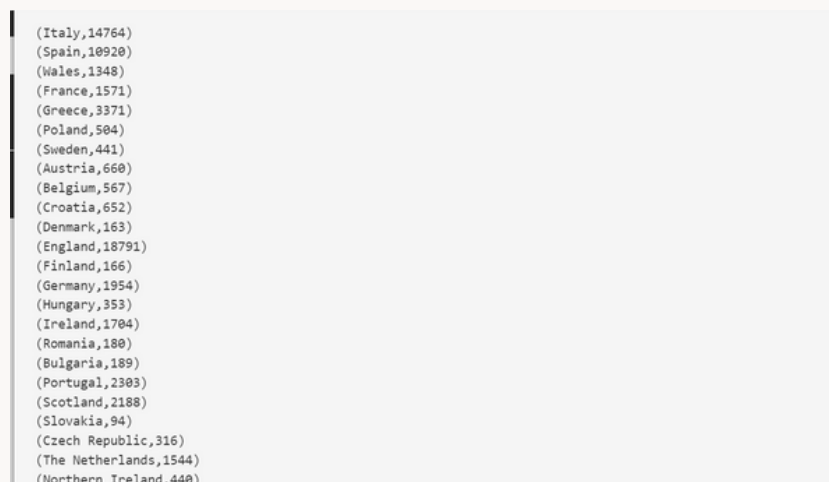
Results
(15188,1)

Insights

As the question asked, we want to calculate the max and min of the counted review of the restaurants based on two conditions, the restaurant is located in France and has an average rating equal to 4. After we run the script we successfully find the max and min with values 15188, 1.

Q5

Count the restaurants that are gluten-free and have average ratings higher than 4 in each country, and save the results



(Italy,14764)
(Spain,10920)
(Wales,1348)
(France,1571)
(Greece,3371)
(Poland,504)
(Sweden,441)
(Austria,660)
(Belgium,567)
(Croatia,652)
(Denmark,163)
(England,18791)
(Finland,166)
(Germany,1954)
(Hungary,353)
(Ireland,1704)
(Romania,180)
(Bulgaria,189)
(Portugal,2303)
(Scotland,2188)
(Slovakia,94)
(Czech Republic,316)
(The Netherlands,1544)
(Northern Ireland,440)

Insights

As the question asked, we want to find the number of restaurants in each country that are gluten-free and have an average rating higher than 4. So we filter the data and group them by country column and order them. As shown the high number of restaurants with their attributes in Italy and the lowest number in Ireland.

Q6

Find the maximum and minimum food ratings of the restaurants that are located in Italy and vegan friendly, and save the results

▼ Results
(5.0,2.0)

Insights

We want to calculate the max and min of the average rating for each restaurant based on two conditions as the question asked. The restaurant that located in Italy and has vegetarian food. After we run the script we successfully found the max and min of average ratings with values 5.0, 2.0

Q7

Find the total reviews in English for each city that are located in Greece, and save the results

Sample of the results:

Results	Download
(Fri,1)	
(Fry,3)	
(Ios,45)	
(Kee,17)	
(Kos,74)	
(Oia,73)	
(Rio,12)	
(Vai,2)	
(Zia,13)	
(Agia,2)	
(Arta,12)	
(Arvi,1)	
(Avia,2)	
(Axos,2)	

Insights

As the question indicates we want to find the total reviews of the restaurant based on multiple conditions. The restaurant that located in Greece and the default language of the reviews is English. As a result, we successfully list the total reviews for each restaurant located in Greece.

Q8

Find the average rating of the atmosphere of all the restaurants that are located in Poland and gluten-free

▼ Results	Download
(4.07258527725935)	

Insights

As the question asked, we want to find the average rating of the atmosphere for all restaurants located in Poland that have gluten-free options. So we filter the data using the country and gluten-free columns and then grouped them to find the average. Finally, we run the script successfully to find the average rating of the restaurant's atmosphere which is equal to 4.07.

Q9

Find the maximum reviews that have all languages as the default language of the restaurants that have an excellent rating higher than one thousand, and save the results

Results	Download
(2087)	

Insights

We want to find the maximum number of reviews that a restaurant got in all languages as default, and has an excellent rating higher than 1000. So we filter the data and then find the maximum rating reviews. As a result, the higher number of reviews depending on the filtered data is equal to 2087.

Q10

Lists the restaurant name that is located in Spain and vegan and has a cheap prices, and save the results

Sample of the results:

Results	Download
(Ash,7) (Bow,1) (Box,4) (Ely,57) (Eye,6) (Haw,1) (Ida,2) (Kew,21) (Lea,2) (Old,1) (Par,12) (Rye,48) (Wim,6) (Wye,7) (Acle,7) (Alme,1) (Aust,1) (Bath,284) (Beer,11) (Boot,4) (Boud,1) (Bode,63) (Bury,83) (Cark,2) (Clun,4) (Cray,1) (Deal,48)	

Insights

We want to list the restaurant name based on multiple conditions. We want a restaurant that is located in Spain, has vegan food, and is in the cheapest price range. We applied the filter for the columns country, vegan and price_range then grouped them to find the result. After running the script we successfully got a list of the restaurant names.

Q11

Find the number of restaurants that are located in England and have mid-price range in each city, and save the results

Sample of the results:

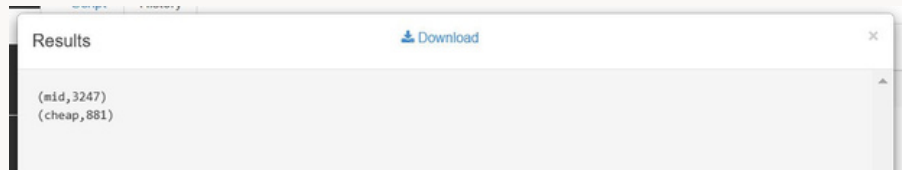
Results	Download
(B13,1) (Bow,1) (JOW,1) (Koi,1) (No3,1) (Wok,1) (Amun,1) (An11,1) (Art1,1) (Aura,1) (Boid,1) (Eden,1) (Ikea,1) (Kai1,1) (Kint,1) (Knos,1) (MAMA,1) (Maoz,1) (Mollo,1) (Ninn,1) (Popa,1) (Rooq,1) (Sopa,1)	

Insights

As the question asked, we want to count the restaurant name that is located in England and has a mid-price range in each. So, we applied the filter for the country and price range columns and then grouped them by the city to find the result. Then we run the script and successfully got the number of restaurants for each city.

Q12

Count the restaurants that are vegetarian and located in Paris of each price range , and save the results



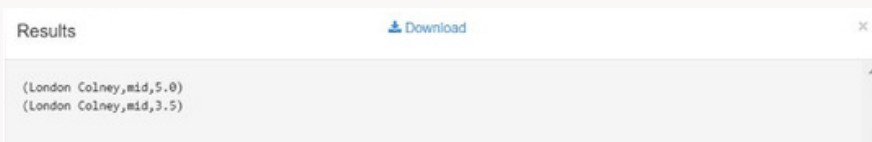
Results
(mid, 3247)
(cheap, 881)

Insights

Based on this output, we want to count the restaurant name that is located in Paris and has vegetarian food. So, we applied the filter for the country and vegetarian column and then grouped them by price_range to find the result. After, we run the script we successfully find the number of restaurants based on each price range (mid, cheap) with value (3247, 881).

Q13

List the restaurants that are located in London Colney and have a mid-price range, and order them by the Avg ratings, and save the results



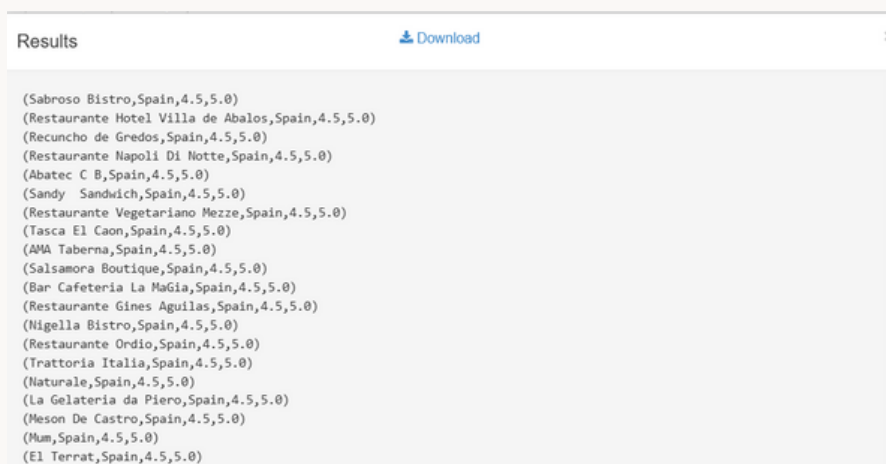
Results
(London Colney, mid, 5.0)
(London Colney, mid, 3.5)

Insights

As the question asked, we want to list restaurants in London Colney country that are mid-price range. So we filter the data and order them. As shown we found only two restaurants and their values are 5.0, 3.5.

Q14

List the restaurants that are located in Spain and average ratings = 5, and service rating = 4.5, and save the results



Results
(Sabroso Bistro, Spain, 4.5, 5.0)
(Restaurante Hotel Villa de Abalos, Spain, 4.5, 5.0)
(Recuncho de Gredos, Spain, 4.5, 5.0)
(Restaurante Napoli Di Notte, Spain, 4.5, 5.0)
(Abatec C B, Spain, 4.5, 5.0)
(Sandy Sandwich, Spain, 4.5, 5.0)
(Restaurante Vegetariano Mezze, Spain, 4.5, 5.0)
(Tasca El Caon, Spain, 4.5, 5.0)
(AMA Taberna, Spain, 4.5, 5.0)
(Salsamora Boutique, Spain, 4.5, 5.0)
(Bar Cafeteria La Magia, Spain, 4.5, 5.0)
(Restaurante Gines Aguilas, Spain, 4.5, 5.0)
(Nigella Bistro, Spain, 4.5, 5.0)
(Restaurante Ordio, Spain, 4.5, 5.0)
(Trattoria Italia, Spain, 4.5, 5.0)
(Naturale, Spain, 4.5, 5.0)
(La Gelateria da Piero, Spain, 4.5, 5.0)
(Meson De Castro, Spain, 4.5, 5.0)
(Mum, Spain, 4.5, 5.0)
(El Terrat, Spain, 4.5, 5.0)

Insights

As the question asked, we want to list the restaurant names that are located in Spain, have an average rating equal to 5, and a service rating equal to 4.5. So we filter the data and group them by the restaurant name column. As shown we successfully got a list of the restaurant located in Spain and matched the conditions.

Q15

What is the cuisines for the most popularity generic restaurant in Elne

Results	Download
(French, Mediterranean, European, Catalan)	

Insights

As the question asked, we want to find the most cuisines restaurants and popular generic located in Elne. So we filter the data using the popularity generic column and generate cuisines for the filtered data. As shown we successfully list the most 4 popularity cuisines French, Mediterranean, European, and Catalan.

Q16

How many Italian cuisine restaurants have a cheap and mid-price range

Results	Download
(mid, 21762) (cheap, 13252)	

Insights

Based on the question, we want to count the restaurants that serve Italian food based on the price range. So, we filter the data using the cuisine column, then group and count them by the price range to find the result. After running the script we successfully count the Italian cuisine restaurants based on each price range (mid, cheap) with value (21762, 13252)

Q17

Count the claimed and unclaimed restaurants per country and save them on a separate file

Results	Download
(Italy, 100674, 61004) (Spain, 61202, 46551) (Wales, 4222, 2592) (France, 70224, 45438) (Greece, 14742, 9902) (Poland, 7855, 6429) (Sweden, 3904, 6020) (Austria, 5118, 7368) (Belgium, 7739, 9502) (Croatia, 3143, 2905) (Denmark, 2746, 3094) (England, 67461, 38610) (Finland, 1926, 2039) (Germany, 23362, 45939) (Hungary, 2535, 2383) (Ireland, 5031, 3008) (Romania, 2427, 1848) (Bulgaria, 1371, 1276) (Portugal, 12968, 10225) (Scotland, 6732, 4026) (Slovakia, 1177, 1107) (Czech Republic, 4023, 4362) (The Netherlands, 11217, 9616) (Northern Ireland, 1376, 1124)	

Insights

As the question indicated, we want to find the number of claimed and unclaimed restaurants in each European country and save each of them in separate files. So we split the data into claimed and unclaimed and we save them on separate files, then we group the data by the country column and count the claimed and unclaimed restaurants of each group. As a result, we got a list of countries with the number of claimed and unclaimed restaurants.

Q18

Find the number of restaurants that have food, service, value, and atmosphere ratings higher than 4, and have mid-price range in each country.

Results [Download](#)

(Italy, 7588)
(Spain, 4676)
(Wales, 695)
(France, 4946)
(Greece, 3123)
(Poland, 378)
(Sweden, 235)
(Austria, 560)
(Belgium, 634)
(Croatia, 460)
(Denmark, 231)
(England, 9330)
(Finland, 83)
(Germany, 1864)
(Hungary, 239)
(Ireland, 1012)
(Romania, 111)
(Bulgaria, 144)
(Portugal, 1141)
(Scotland, 977)
(Slovakia, 76)
(Czech Republic, 291)
(The Netherlands, 851)
(Northern Ireland, 226)

Insights

We want to find the number of restaurants in each European country that have food, service, value, and atmosphere ratings higher than 4, and have mid-range prices. So we filter our data to find the restaurants with these characteristics and then group them using the country column. As shown that we got a list of all the countries along with the number of restaurants.

Q19

Count the restaurants that open more than 150 hours per week and have average ratings equal to 5, in each country.

Results [Download](#)

(Italy, 135)
(Spain, 63)
(Wales, 7)
(France, 64)
(Greece, 271)
(Poland, 8)
(Austria, 3)
(Belgium, 1)
(Croatia, 13)
(Denmark, 1)
(England, 45)
(Finland, 1)
(Germany, 12)
(Hungary, 2)
(Ireland, 4)
(Romania, 6)
(Bulgaria, 8)
(Portugal, 13)
(Scotland, 5)
(Slovakia, 2)
(Czech Republic, 2)
(The Netherlands, 8)
(Northern Ireland, 1)

Insights

As the question indicates, we want to count the restaurants in each country that are open more than 150 hours per week and have an average rating equal to five. So we filter the data using the avg rating and open hours per week columns, then group and count the filtered data by the country column. As a result, we successfully got all the European countries with the number of restaurants.

Q20

Find the average for food rating for all restaurants where the price range are cheap

Results [Download](#)

(4.081924211351693)

Insights

The last question asked to calculate the average food ratings for all the restaurants that have a cheap price range. So we filter the data using the price range column, then we calculate the average of all the restaurants' food rating. As shown that the average food rating is equal to 4.08 out of five.