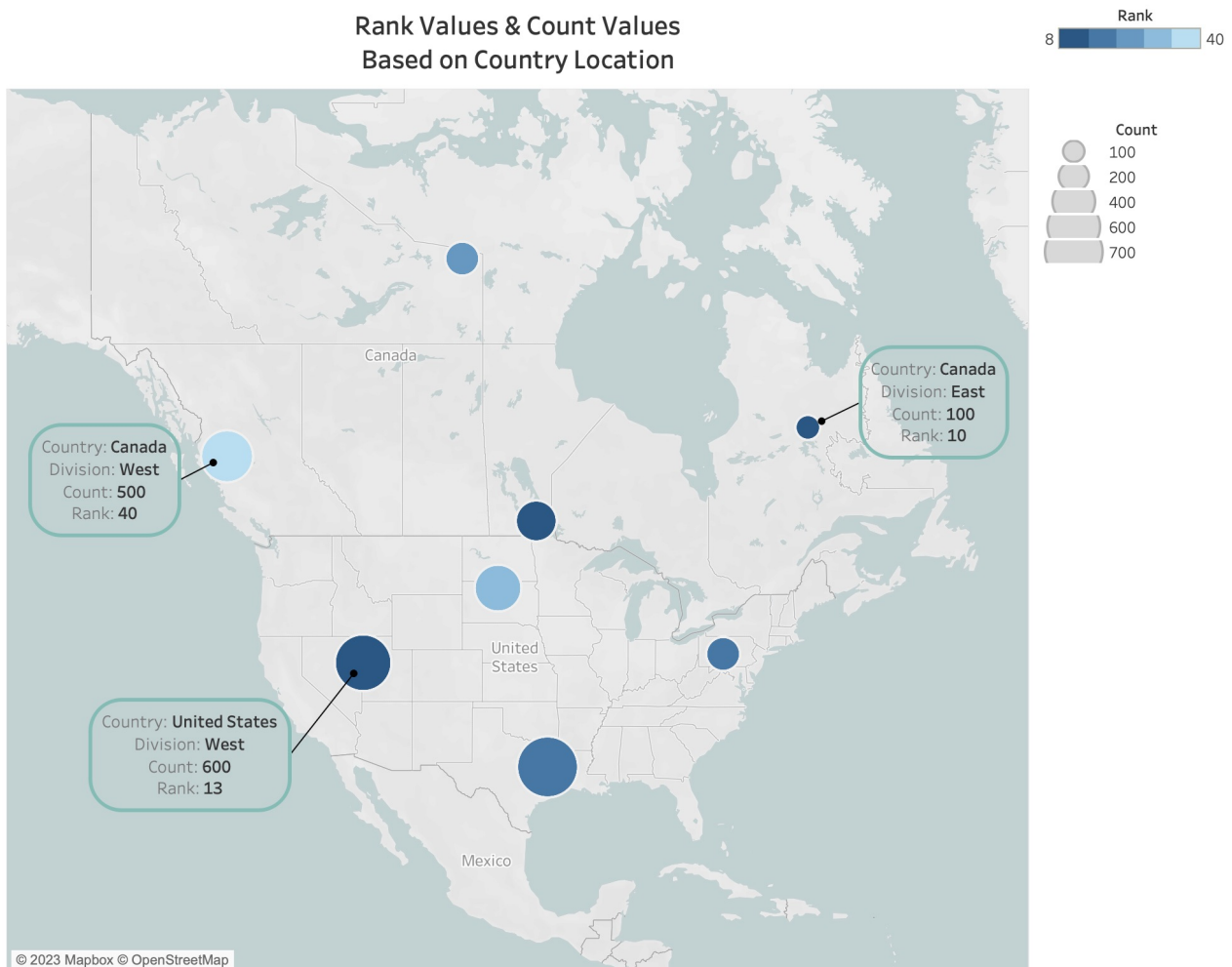


COMP5048 Week 2 Homework

Designed by: Jiarui Xu Date: 2023/3

Task 1:

Display the rank value and the count value of the CountryLocation data on the map visualisation from Exercise 2.3 (you can add more data columns under Marks), using different visual variables (e.g., colour vs size) for both.



Task 2:

Create charts showing the sales of each avocado type (4046, 4225, and 4770) per region for the Avocado data.

In relation to this matter, I have suggested different chart types that I believe are suitable for four distinct scenarios with varying requirements. Thank you for your patience!

Notes:

Different situations may require different chart types to visualise data effectively. When analysing avocado sales data, it is important to provide accurate numerical data and simple visualisations that help data scientists, experts, or specialists to understand the data accurately. Highlight tables can be used for this purpose.

Type: 4046

Region	
SouthCentral	535,041,387
California	398,967,013
West	398,590,531
Southeast	339,687,093
LosAngeles	223,879,363
Plains	143,511,361
PhoenixTucson	115,427,709
DallasFtWorth	110,556,467
Midsouth	110,430,633
Houston	99,772,899
GreatLakes	93,717,012
WestTexNewMexico	84,077,386
MiamiFtLauderdale	59,140,100
Atlanta	49,387,501
Tampa	35,747,752
Northeast	34,991,208
SanFrancisco	34,136,890
SanDiego	34,082,666
Orlando	33,390,905
SouthCarolina	28,410,361
NewOrleansMobile	26,804,739
Denver	26,428,851
Sacramento	23,451,404
Portland	23,207,925
Seattle	21,466,653
LasVegas	19,787,131
Detroit	18,783,150
Nashville	18,188,885
Jacksonville	15,471,710
StLouis	13,510,852
Columbus	12,586,128
RichmondNorfolk	12,476,849
BaltimoreWashington	12,051,802
RaleighGreensboro	11,820,813
Chicago	10,844,082
NewYork	7,639,327

Type: 4225

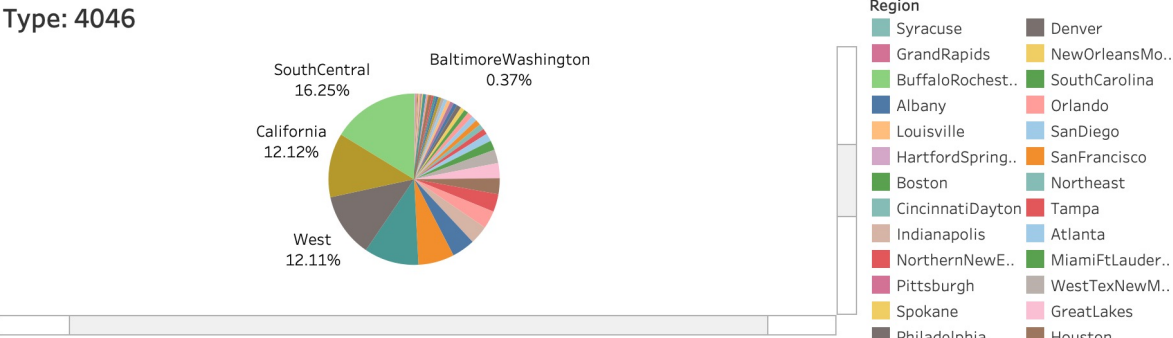
Region	
Northeast	474,484,664
California	351,491,402
West	300,758,923
GreatLakes	267,257,721
Midsouth	222,373,069
SouthCentral	220,450,006
NewYork	163,353,843
LosAngeles	102,133,960
Southeast	90,860,436
Plains	87,335,337
Chicago	86,027,437
SanFrancisco	83,153,062
BaltimoreWashington	83,142,216
Boston	72,406,314
NorthernNewEngland	53,609,251
Denver	50,810,515
Houston	47,724,433
DallasFtWorth	47,170,494
Philadelphia	42,748,435
Sacramento	41,176,914
PhoenixTucson	39,157,986
HartfordSpringfield	37,847,618
Seattle	36,040,781
Portland	34,985,661
SanDiego	29,258,462
WestTexNewMexico	22,178,463
HarrisburgScranton	20,689,742
CincinnatiDayton	20,637,908
GrandRapids	17,241,526
RaleighGreensboro	16,678,125
RichmondNorfolk	16,076,359
LasVegas	15,364,425
MiamiFtLauderdale	14,911,282
Indianapolis	14,463,836
Albany	12,715,968
SouthCarolina	12,631,864

Type: 4770

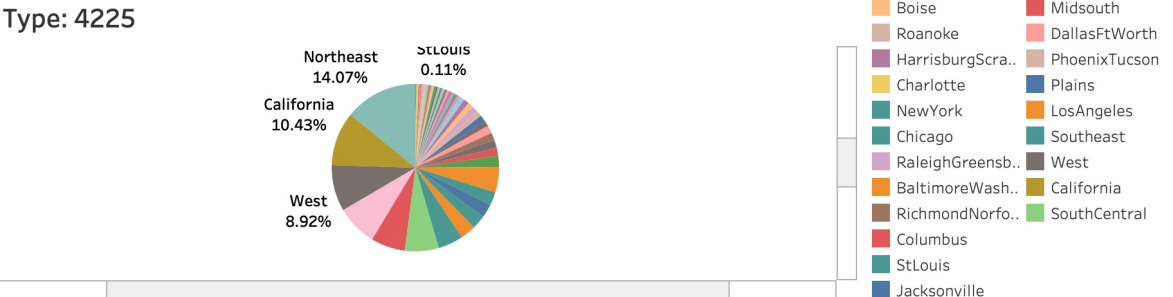
Region	
GreatLakes	50,075,971
California	31,841,046
SouthCentral	22,395,794
West	20,356,071
Chicago	19,965,391
Midsouth	19,031,957
LosAngeles	13,618,694
Detroit	8,614,803
Northeast	6,816,645
Houston	5,455,471
DallasFtWorth	4,222,574
BaltimoreWashington	4,213,755
RaleighGreensboro	4,027,114
Charlotte	3,913,522
SanFrancisco	3,649,315
GrandRapids	3,307,837
Southeast	3,163,231
SanDiego	3,108,122
WestTexNewMexico	2,969,474
Portland	2,854,265
Denver	2,706,165
Plains	2,494,474
PhoenixTucson	2,149,380
NewYork	1,746,802
Boston	1,684,016
Columbus	1,675,076
SouthCarolina	1,558,374
Sacramento	1,553,161
Indianapolis	1,391,161
NorthernNewEngland	1,315,387
LasVegas	1,172,357
RichmondNorfolk	1,169,414
CincinnatiDayton	1,156,307
Boise	1,077,134
Seattle	1,015,345
Nashville	645,528

In other cases, it may be necessary to analyse sales distribution in different regions. For instance, a marketing manager or analyst may want to know which types of avocados sell the best in a specific region to adjust marketing strategies accordingly. In such cases, pie charts can be used to present the data.

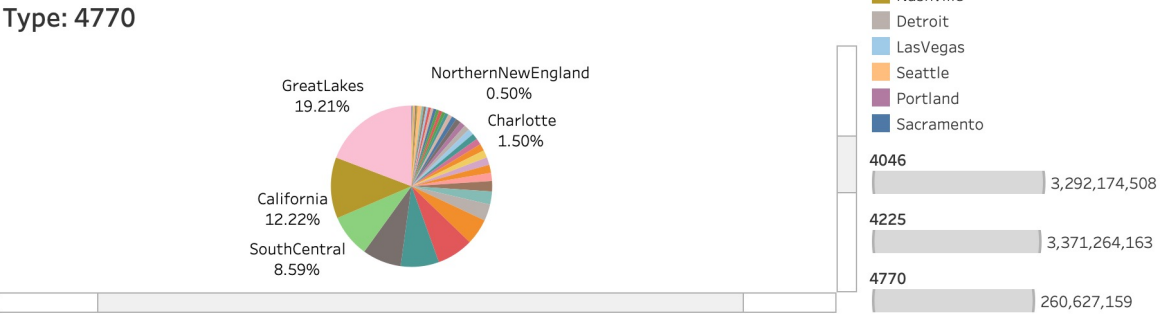
Type: 4046



Type: 4225



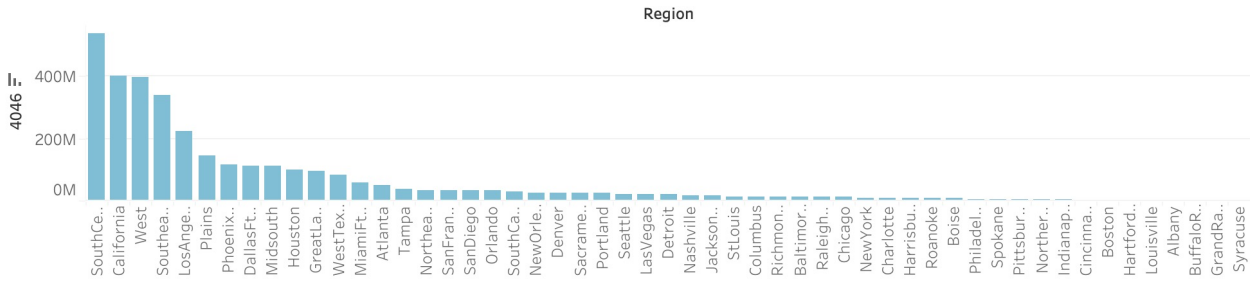
Type: 4770



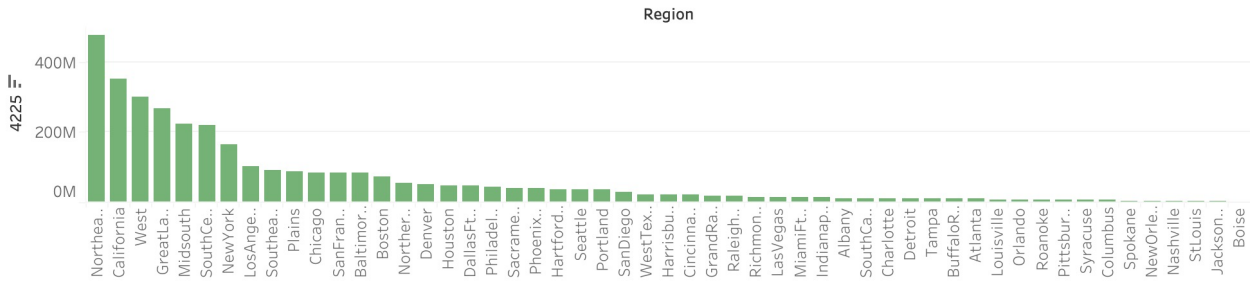
4046	3,292,174,508
4225	3,371,264,163
4770	260,627,159

For researchers interested in the United States avocado market, it may be sufficient to provide a brief overview of sales trends. A bar chart can be used for this purpose to show the market trends.

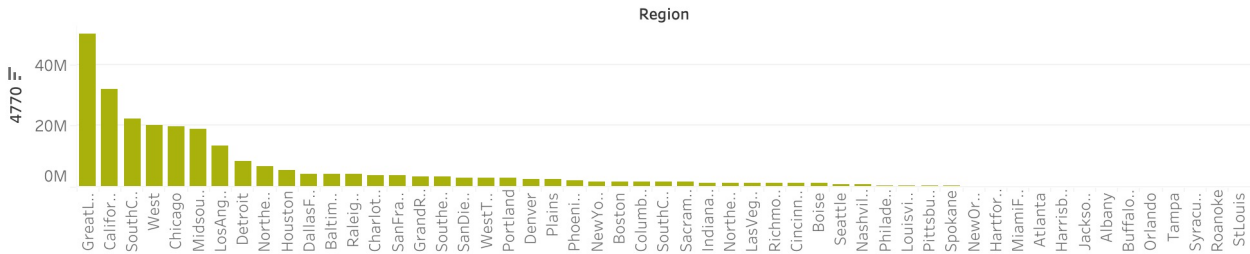
Type: 4046



Type: 4225



Type: 4770



Moreover, some customers may be enthusiastic about our sales, and in such cases, tree-maps can be used to provide a clear and intuitive impression of our products.

