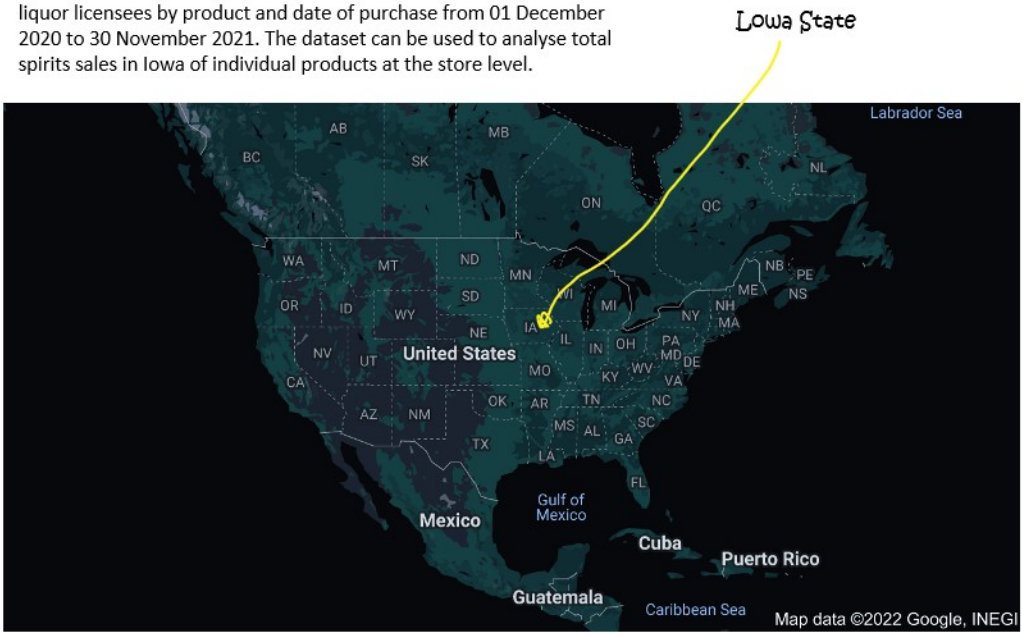
Dash Autumn Challenge

16 September 2022 00:30

Dataset provides us the information about the **Alcohol sales in Iowa state**.

More information about the dataset:

This dataset contains the spirits purchase information of Iowa Class "E" liquor licensees by product and date of purchase from 01 December 2020 to 30 November 2021. The dataset can be used to analyse total spirits sales in Iowa of individual products at the store level.



Summary for dataset with 50000 Rows (Smallest version of dataset)

skimpy summary

Data Summary

dataframe	Values
Number of rows	50000
Number of columns	24

Data Types

Column Type	Count
string	10
int64	7
float64	7

14 Numerical Columns

number

column_name	NA	NA %	mean	sd	p0	p25	p75	p100	hist
store_number	0	0	4100	1200	2100	2600	5200	9000	
zip_code	4	0.008	51000	990	50000	50000	52000	57000	
county_number	4	0.008	57	27	1	31	77	99	
category	0	0	1100000	84000	1000000	1000000	1100000	1900000	
vendor_number	0	0	300	140	35	260	420	980	
item_number	0	0	57000	98000	260	34000	65000	1000000	
pack	0	0	12	8.1	1	6	12	60	
bottle_volume_ml	0	0	860	550	20	380	1000	3500	
state_bottle_cost	0	0	11	9.7	0.89	5.4	13	680	
state_bottle_retail	0	0	16	15	1.3	8.1	19	1000	
bottles_sold	0	0	13	34	1	3	12	2700	
sale_dollars	0	0	160	500	1.4	42	160	34000	
volume_sold_liters	0	0	10	41	0.02	1.8	10	4700	
volume_sold_gallons	0	0	2.7	11	0	0.46	2.8	1200	

string

column_name	NA	NA %	words per row	total words
invoice_and_item_num	0	0	1	50000
date	0	0	1	50000
store_name	0	0	1	50000
address	4	0.008	1	50000
city	4	0.008	1	50000
store_location	5900	12	1	50000
county	4	0.008	1	50000
category_name	0	0	1	50000
vendor_name	0	0	1	50000
item_description	0	0	1	50000

End

10 String Columns

Information about the important attributes

Category and Category Name
Category Code and Category name for the liquor ordered.

Item number and item description
Item number and description of the individual liquor product ordered..

Pack:
Number of bottles in a case for the liquor ordered.

Bottle volume in ml

Volume of each liquor ordered in millilitres.

Bottles Sold

Number of bottles of liquor ordered by the state

State bottle cost, retail

Cost is the amount that alcoholic beverages division paid for each bottle of liquor ordered

Retail is the amount that store paid for each bottle of liquor ordered

Volume sold in liters and gallons

The volume of liquor ordered in liters and gallons

$Volume_{sold} = Bottle_{volumes} * Gallons_{sold}$

Sale Cost

The total cost of liquor order

Store name and Store Number

Name of store who ordered the liquor and unique ID assigned to that store.

Address, City, Zip Code, Location, County

Information about the location of the store.

Vendor name and Number

Vendor name and Vendor number for the brand of liquor ordered .

Visualization's I can do

1. Retail Revenue by County
2. Revenue per Person
3. Profit by Type of Liquor
4. 2019 Profit by Type Breakdown
5. 2019 Top Categories
6. Proportion of Costs by Type