

Codebook for beer_brewery_byState

Autogenerated data summary from dataMaid

2019-06-29 11:30:25

Data report overview

The dataset examined has the following dimensions:

Feature	Result
Number of observations	51
Number of variables	40

Codebook summary table

Label	Variable	Class	# unique values	Missing	Description
State Name abbreviation	State	character	51	0.00 %	
Beers with a low International Bitterness Units Scale (IBU)	IBU_rating_low	numeric	23	1.96 %	
Beers with a medium International Bitterness Units Scale (IBU)	IBU_rating_medium	numeric	22	1.96 %	
Beers with a high International Bitterness Units Scale (IBU)	IBU_rating_high	numeric	23	1.96 %	
Beers with a low Alcohol by Volume (ABV) value	ABV_rating_low	numeric	30	0.00 %	
Beers with a medium Alcohol by Volume (ABV) value	ABV_rating_medium	numeric	31	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
Beers with a high Alcohol by Volume (ABV) value	ABV_rating_high	numeric	26	0.00 %	
8.4 ounce beers	Ounces_8.4	numeric	2	0.00 %	
12 ounce beers	Ounces_12	numeric	37	0.00 %	
16 ounce beers	Ounces_16	numeric	28	0.00 %	
16.9 ounce beers	Ounces_16.9	numeric	2	0.00 %	
19.2 ounce beers	Ounces_19.2	numeric	4	0.00 %	
24 ounce beers	Ounces_24	numeric	5	0.00 %	
32 ounce beers	Ounces_32	numeric	3	0.00 %	
Number of beers	Number_of_beers	integer	37	0.00 %	
Number of breweries	Number_of_breweries	integer	22	0.00 %	
Number of beer styles	Number_of_styles	integer	29	0.00 %	
Number of beers with an IBU value	IBU_count	integer	38	0.00 %	
Average IBU	IBU_average	numeric	51	1.96 %	
Median IBU	IBU_median	numeric	35	1.96 %	
Standard Deviation of IBU	IBU_sd	numeric	50	5.88 %	
Number of beers with an ABV value	ABV_count	integer	39	0.00 %	
Average ABV	ABV_average	numeric	50	0.00 %	
Median ABV	ABV_median	numeric	17	0.00 %	
Standard deviation of ABV	ABV_sd	numeric	51	1.96 %	
Number of beers with an Ounces value	Ounces_count	integer	37	0.00 %	
Average ounces	Ounces_average	numeric	42	0.00 %	
Median ounces	Ounces_median	numeric	3	0.00 %	
Standard deviation of ounces	Ounces_sd	numeric	43	0.00 %	
The number of people living in the state(2018 Census estimate)	Population	integer	51	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
name of State	State_name	character	51	0.00 %	
Breweries per million people	breweries_per_million_person	numeric	51	0.00 %	
Square miles of the state	Square_miles	numeric	51	0.00 %	
Breweries per thousand square miles	breweries_per_thousand_sqmiles	numeric	51	0.00 %	
The ranking of ABV median against other states(e.g. #1 has the highest ABV)	ABV_rank	numeric	17	0.00 %	
The ranking of ABV standard deviation against other states(e.g. #1 has the highest standard deviation)	ABV_sd_rank	numeric	51	0.00 %	
The ranking of IBU median against other states(e.g. #1 has the highest IBU)	IBU_rank	numeric	35	0.00 %	
The ranking of IBU standard deviation against other states(e.g. #1 has the highest standard deviation)	IBU_sd_rank	numeric	51	0.00 %	
The ranking of Ounce median against other states(e.g. #1 has the highest Ounce)	Ounce_rank	numeric	3	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
The ranking of Ounce standard deviation against other states(e.g. #1 has the highest standard deviation)	Ounce_sd	numeric	43	0.00 %	

Variable list

State

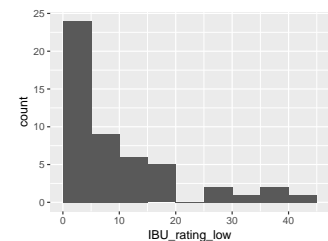
State Name abbreviation

- The variable is a key (distinct values for each observation).

IBU_rating_low

Beers with a low International Bitterness Units Scale (IBU)

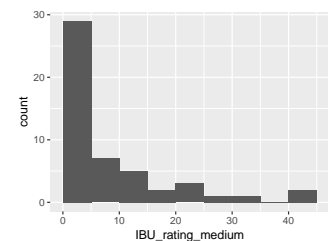
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.96 %)
Number of unique values	22
Median	6
1st and 3rd quartiles	2; 12
Min. and max.	0; 41



IBU_rating_medium

Beers with a medium International Bitterness Units Scale (IBU)

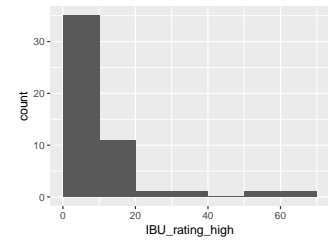
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.96 %)
Number of unique values	21
Median	4
1st and 3rd quartiles	2.25; 11
Min. and max.	0; 43



IBU_rating_high

Beers with a high International Bitterness Units Scale (IBU)

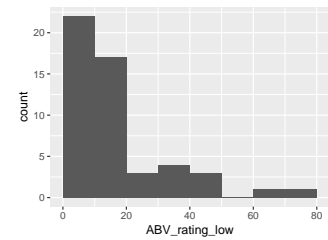
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.96 %)
Number of unique values	22
Median	4
1st and 3rd quartiles	2.25; 12
Min. and max.	0; 62



ABV_rating_low

Beers with a low Alcohol by Volume (ABV) value

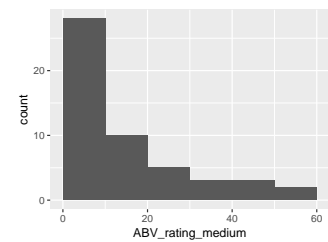
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	30
Median	11
1st and 3rd quartiles	5; 19.5
Min. and max.	0; 76



ABV_rating_medium

Beers with a medium Alcohol by Volume (ABV) value

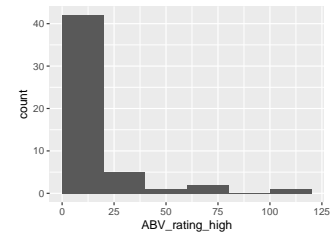
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	31
Median	7
1st and 3rd quartiles	4; 20.5
Min. and max.	0; 59



ABV_rating_high

Beers with a high Alcohol by Volume (ABV) value

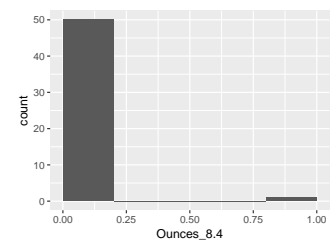
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	26
Median	8
1st and 3rd quartiles	4; 17.5
Min. and max.	0; 115



Ounces_8.4

8.4 ounce beers

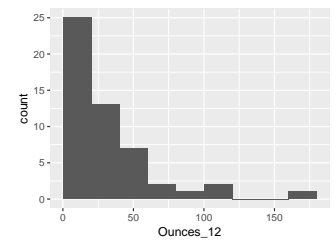
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	2
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 1



Ounces_12

12 ounce beers

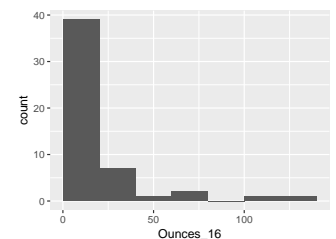
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	37
Median	22
1st and 3rd quartiles	7.5; 38
Min. and max.	1; 180



Ounces_16

16 ounce beers

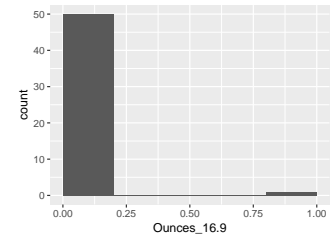
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	28
Median	6
1st and 3rd quartiles	1.5; 18
Min. and max.	0; 121



Ounces_16.9

16.9 ounce beers

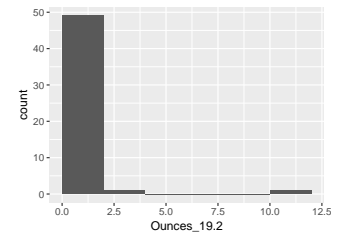
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	2
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 1



Ounces_19.2

19.2 ounce beers

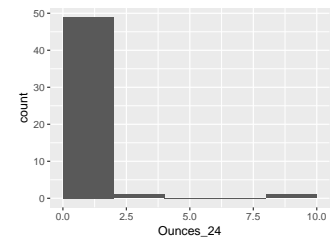
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 11



Ounces_24

24 ounce beers

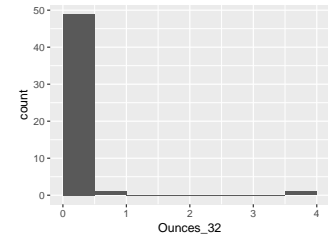
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	5
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 10



Ounces_32

32 ounce beers

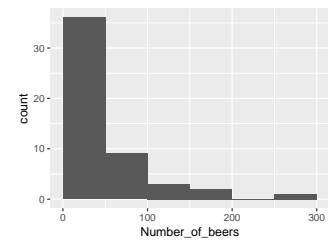
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	3
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 4



Number_of_beers

Number of beers

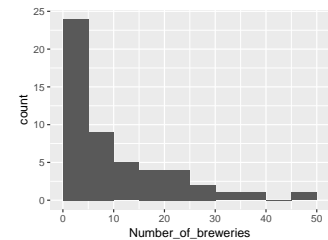
Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	37
Median	27
1st and 3rd quartiles	14; 58.5
Min. and max.	2; 265



Number_of_breweries

Number of breweries

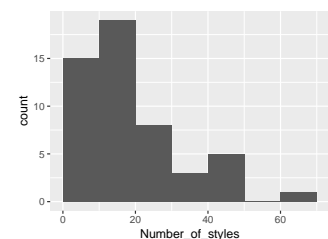
Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	22
Median	7
1st and 3rd quartiles	3.5; 15.5
Min. and max.	1; 46



Number_of_styles

Number of beer styles

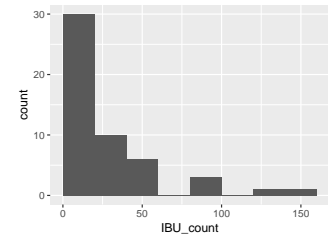
Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	29
Median	17
1st and 3rd quartiles	10; 24.5
Min. and max.	2; 61



IBU_count

Number of beers with an IBU value

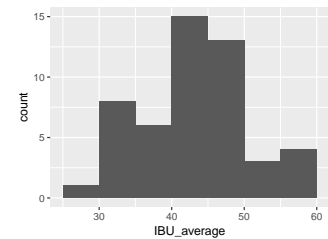
Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	38
Median	17
1st and 3rd quartiles	7.5; 37.5
Min. and max.	0; 146



IBU_average

Average IBU

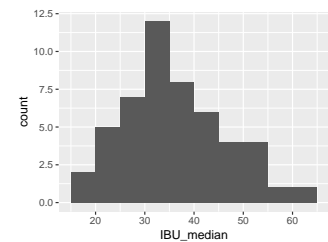
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.96 %)
Number of unique values	51
Median	42.37
1st and 3rd quartiles	37.1; 46.49
Min. and max.	26.55; 57.5



IBU_median

Median IBU

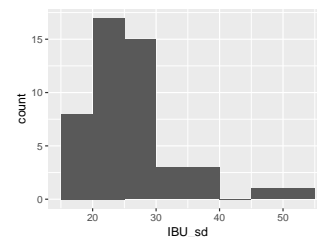
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.96 %)
Number of unique values	34
Median	35
1st and 3rd quartiles	30; 42.75
Min. and max.	19; 61



IBU_sd

Standard Deviation of IBU

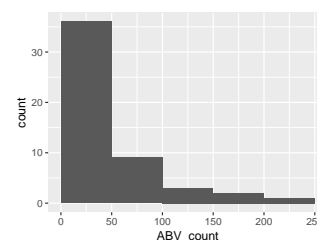
Feature	Result
Variable type	numeric
Number of missing obs.	3 (5.88 %)
Number of unique values	49
Median	24.82
1st and 3rd quartiles	21.82; 27.84
Min. and max.	15.93; 50.86



ABV_count

Number of beers with an ABV value

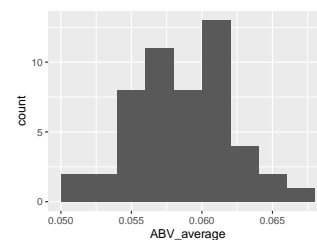
Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	39
Median	27
1st and 3rd quartiles	13.5; 55.5
Min. and max.	1; 250



ABV_average

Average ABV

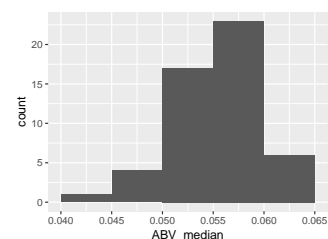
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	50
Median	0.06
1st and 3rd quartiles	0.06; 0.06
Min. and max.	0.05; 0.07



ABV_median

Median ABV

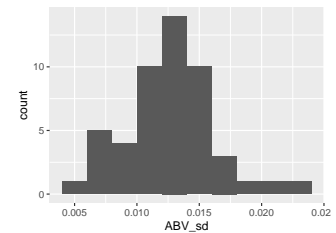
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	17
Median	0.06
1st and 3rd quartiles	0.06; 0.06
Min. and max.	0.04; 0.06



ABV_sd

Standard deviation of ABV

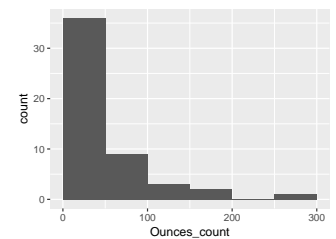
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.96 %)
Number of unique values	50
Median	0.01
1st and 3rd quartiles	0.01; 0.01
Min. and max.	0.01; 0.02



Ounces_count

Number of beers with an Ounces value

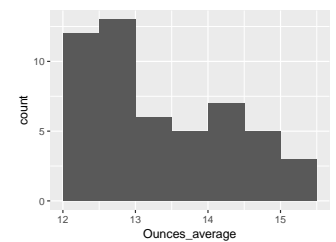
Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	37
Median	27
1st and 3rd quartiles	14; 58.5
Min. and max.	2; 265



Ounces_average

Average ounces

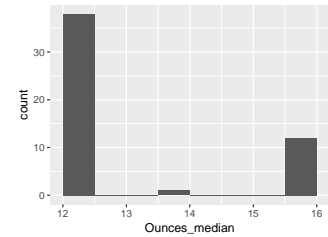
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	42
Median	13.05
1st and 3rd quartiles	12.53; 14.08
Min. and max.	12; 15.34



Ounces_median

Median ounces

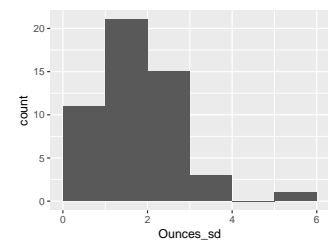
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	3
Median	12
1st and 3rd quartiles	12; 13
Min. and max.	12; 16



Ounces_sd

Standard deviation of ounces

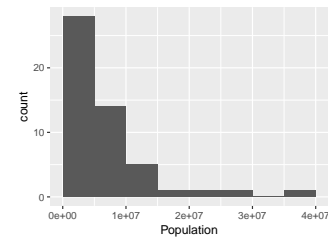
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	43
Median	1.73
1st and 3rd quartiles	1.36; 2.04
Min. and max.	0; 5.55



Population

The number of people living in the state(2018 Census estimate)

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	51
Median	4468402
1st and 3rd quartiles	1780020; 7353618.5
Min. and max.	577737; 39557045



State_name

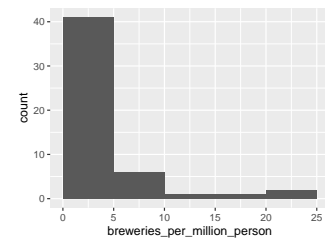
name of State

- The variable is a key (distinct values for each observation).

breweries_per_million_person

Breweries per million people

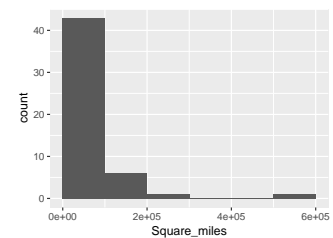
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	51
Median	1.43
1st and 3rd quartiles	0.94; 3.67
Min. and max.	0.17; 23.95



Square_miles

Square miles of the state

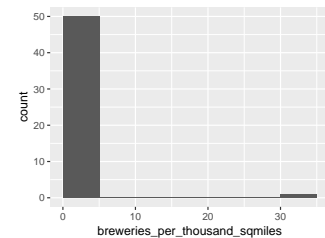
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	51
Median	53624.76
1st and 3rd quartiles	33334.51; 80692.73
Min. and max.	61.05; 570640.95



breweries_per_thousand_sqmiles

Breweries per thousand square miles

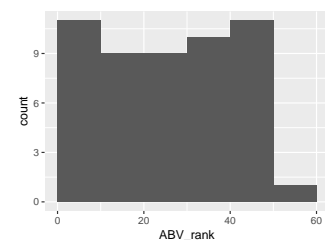
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	51
Median	0.21
1st and 3rd quartiles	0.07; 0.51
Min. and max.	0.01; 32.76



ABV_rank

The ranking of ABV median against other states(e.g. #1 has the highest ABV)

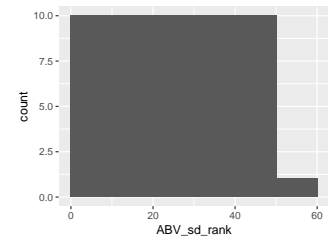
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	17
Median	25.5
1st and 3rd quartiles	14.5; 34.5
Min. and max.	1.5; 51



ABV_sd_rank

The ranking of ABV standard deviation against other states(e.g. #1 has the highest standard deviation)

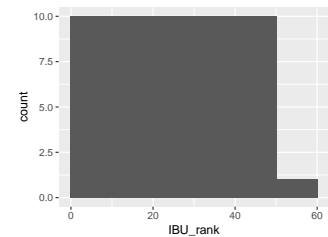
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	51
Median	26
1st and 3rd quartiles	13.5; 38.5
Min. and max.	1; 51



IBU_rank

The ranking of IBU median against other states(e.g. #1 has the highest IBU)

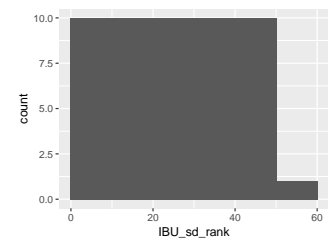
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	35
Median	26.5
1st and 3rd quartiles	13.75; 38.5
Min. and max.	1; 51



IBU_sd_rank

The ranking of IBU standard deviation against other states(e.g. #1 has the highest standard deviation)

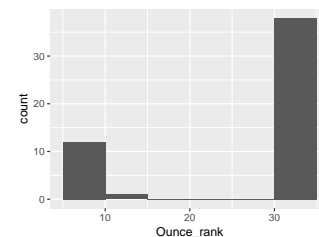
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	51
Median	26
1st and 3rd quartiles	13.5; 38.5
Min. and max.	1; 51



Ounce_rank

The ranking of Ounce median against other states(e.g. #1 has the highest Ounce)

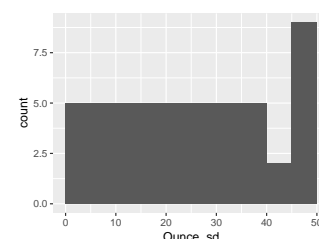
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	3
Median	32.5
1st and 3rd quartiles	22.75; 32.5
Min. and max.	6.5; 32.5



Ounce_sd

The ranking of Ounce standard deviation against other states(e.g. #1 has the highest standard deviation)

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	43
Median	26
1st and 3rd quartiles	13.5; 38.5
Min. and max.	1; 47



Report generation information:

- Created by Blake Holmes (username: bjholmes).
- Report creation time: Sat Jun 29 2019 11:30:25
- Report was run from directory: /Users/bjholmes/Library/Mobile Documents/com~apple~CloudDocs/DataScience/Data Science/Unit_7/case_study_1
- dataMaid v1.3.0 [Pkg: 2019-06-07 from CRAN (R 3.5.2)]
- R version 3.5.1 (2018-07-02).
- Platform: x86_64-apple-darwin15.6.0 (64-bit)(macOS 10.14.5).
- Function call: `makeDataReport(data = beer_brewery_byState, mode = c("summarize", "visualize", "check"), smartNum = FALSE, file = "codebook_beer_brewery_byState.Rmd", replace = TRUE, checks = list(character = "showAllFactorLevels", factor = "showAllFactorLevels", labelled = "showAllFactorLevels", haven_labelled = "showAllFactorLevels", numeric = NULL, integer = NULL, logical = NULL, Date = NULL), listChecks = FALSE, maxProbVals = Inf, codebook = TRUE, reportTitle = "Codebook for beer_brewery_byState")`