

Lab 9 - Data Transformation

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Using your own dataset (which may include more than one table) carry out the following data cleaning steps. Knit together the PDF document and commit both the Lab 9 RMD file and the PDF document to Git. Push the changes to GitHub so both documents are visible in your public GitHub repository.

```
git add . git commit -m ""
```

1. In addition to simply naming variable names in select you can also use `:` to select a range of variables and `-` to exclude some variables, similar to indexing a `data.frame` with square brackets. You can use both variable's names as well as integer indexes.
 - a. Use `select()` to print out a `tbl` that contains only the first 3 columns of your dataset, called by name.
 - b. Print out a `tbl` with the last 3 columns of your dataset, called by name.
 - c. Find the most concise way to select the first 3 columns and the last 3 columns by name.

```
library(tidyverse)
```

```
## Loading tidyverse: ggplot2
## Loading tidyverse: tibble
## Loading tidyverse: tidyr
## Loading tidyverse: readr
## Loading tidyverse: purrr
## Loading tidyverse: dplyr
```

```
## Warning: package 'dplyr' was built under R version 3.4.2
```

```
## Conflicts with tidy packages -----
```

```
## filter(): dplyr, stats
## lag():    dplyr, stats
```

```
setwd("/Users/marakage/Desktop/Honors/STAT/Labs/Lab-9")
load("lab8.RData")
```

```
#a.
```

```
select(barpop, POPGROUP.id, Asiansubgroup, subpoptotal)
```

```
## # A tibble: 10 x 3
## # Groups:   POPGROUP.id [10]
##   POPGROUP.id      Asiansubgroup subpoptotal
##   <chr>          <chr>          <dbl>
## 1      012      Asian alone (400-499)    280815
## 2      015  Cambodian alone (405-409)      1955
## 3      016    Chinese alone (410-419)    59682
## 4      018  Taiwanese alone (412-419)      681
## 5      019  Filipino alone (420-421)    31990
## 6      020      Hmong alone (422)        175
## 7      022  Japanese alone (430-439)     6097
## 8      023    Korean alone (440-441)    16467
## 9      024      Laotian alone (442)     1286
## 10     029 Vietnamese alone (450-459)   28964
```

```
#b.
```

```
select(barpop, Asiansubgroup, subpoptotal, subgroup_prop)
```

```
## Adding missing grouping variables: `POPGROUP.id`
```

```
## # A tibble: 10 x 4
```

```
## # Groups:   POPGROUP.id [10]
```

##	POPGROUP.id	Asiansubgroup	subpoptotal	subgroup_prop
##	<chr>	<chr>	<dbl>	<dbl>
## 1	012	Asian alone (400-499)	280815	0.14943
## 2	015	Cambodian alone (405-409)	1955	0.00104
## 3	016	Chinese alone (410-419)	59682	0.03176
## 4	018	Taiwanese alone (412-419)	681	0.00036
## 5	019	Filipino alone (420-421)	31990	0.01702
## 6	020	Hmong alone (422)	175	0.00009
## 7	022	Japanese alone (430-439)	6097	0.00324
## 8	023	Korean alone (440-441)	16467	0.00876
## 9	024	Laotian alone (442)	1286	0.00068
## 10	029	Vietnamese alone (450-459)	28964	0.01541

```
#c. besides calling the specific subgroup name as above, maybe? Select(barpop, num_range(barpop, 1:3)) o
```

2. dplyr comes with a set of helper functions that can help you select groups of variables inside a `select()` call:

- `starts_with("X")`: every name that starts with "X",
- `ends_with("X")`: every name that ends with "X",
- `contains("X")`: every name that contains "X",
- `matches("X")`: every name that matches "X", where "X" can be a regular expression,
- `num_range("x", 1:5)`: the variables named x01, x02, x03, x04 and x05,
- `one_of(x)`: every name that appears in x, which should be a character vector.

```
library(dplyr)
```

```
select(AsianAlone, starts_with("A"))
```

```
## # A tibble: 1,360 x 0
```

```
select(AsianAlone, ends_with("n"))
```

```
## # A tibble: 1,360 x 0
```

```
select(AsianAlone, contains("a"))
```

```
## # A tibble: 1,360 x 2
```

##	POPGROUP.display-label
##	<chr>
## 1	Asian alone (400-499)
## 2	Chinese alone (410-419)
## 3	Filipino alone (420-421)
## 4	Asian alone or in combination with one or more other races (400-499) & (10
## 5	Asian alone (400-499)
## 6	Chinese alone (410-419)
## 7	Filipino alone (420-421)
## 8	Japanese alone (430-439)
## 9	Korean alone (440-441)
## 10	Vietnamese alone (450-459)

```
## # ... with 1,350 more rows, and 1 more variables:
```

```
## # `GEO.display-label` <chr>
select(AsianAlone, matches("c"))

## # A tibble: 1,360 x 0
select(AsianAlone, num_range("019", 1:5))

## # A tibble: 1,360 x 0
Asiansubgroups <- c("GEO.id", "GEO.id2")
select(AsianAlone, one_of(Asiansubgroups))

## # A tibble: 1,360 x 2
##           GEO.id      GEO.id2
##           <chr>      <chr>
##  1 1400000US53033000100 53033000100
##  2 1400000US53033000100 53033000100
##  3 1400000US53033000100 53033000100
##  4 1400000US53033000100 53033000100
##  5 1400000US53033000200 53033000200
##  6 1400000US53033000200 53033000200
##  7 1400000US53033000200 53033000200
##  8 1400000US53033000200 53033000200
##  9 1400000US53033000200 53033000200
## 10 1400000US53033000200 53033000200
## # ... with 1,350 more rows
```

Pay attention here: When you refer to columns directly inside `select()`, you don't use quotes. If you use the helper functions, you do use quotes.

- Use `select()` and a helper function to print out a `tbl` that selects only variables that contain a specific character string.
- Use `select()` and a helper function to print out a `tbl` that selects only variables that start with a certain letter or string of letters.

```
#a.
select(AsianAlone, contains("laotian"))

## # A tibble: 1,360 x 0

#b.
select(AsianAlone, starts_with("l"))

## # A tibble: 1,360 x 0
```

- Are there any mutations you wish to carry out on your data (i.e. new variables you wish to create based upon the values of already existing variables)? If so, describe what they are and what you will name them.

For the barchart, I will need to create proportion column with the proportion of each subgroup population in comparison with total population in King County. It will be named "prop". The mutation will happen as I first need to summarize the total count for each subgroup, and remove the Asian Alone in combination with as it is not clear how the individuals of this category were grouped, mutate to create a new total population column, adding the proportional relation between subgroup and total population.

- You can use `mutate()` to add multiple variables at once. To create more than one variable, place a comma between each variable that you define inside `mutate()`.

- a. Carry out any and all of the mutations you wish to perform on your dataset and print the results to the console.

```
Data_Asian_Alone %>%
group_by(POPGROUP.id) %>% # Group by ethnicity/subgroup
  summarise(Total_pop = sum(Count)) %>% #Sum within subgroup
  filter(POPGROUP.id != 031) %>% #Remove asian and other
  mutate(Total_Asian = sum(Total_pop), #Create total asian pop variable
         proportion = Total_pop/Total_Asian) # Creating proportion of subgroup of total Asians
```

```
## # A tibble: 11 x 4
##   POPGROUP.id Total_pop Total_Asian  proportion
##   <chr>      <dbl>      <dbl>      <dbl>
## 1      012    280815    757540  0.3706932967
## 2      015     1955    757540  0.0025807218
## 3      016    59682    757540  0.0787839586
## 4      018      681    757540  0.0008989624
## 5      019    31990    757540  0.0422287932
## 6      020      175    757540  0.0002310109
## 7      022     6097    757540  0.0080484199
## 8      023    16467    757540  0.0217374660
## 9      024     1286    757540  0.0016976001
## 10     029    28964    757540  0.0382342847
## 11     031    329428    757540  0.4348654857
```

6. R comes with a set of logical operators that you can use inside `filter()`:

- `x < y`, TRUE if x is less than y
- `x <= y`, TRUE if x is less than or equal to y
- `x == y`, TRUE if x equals y
- `x != y`, TRUE if x does not equal y
- `x >= y`, TRUE if x is greater than or equal to y
- `x > y`, TRUE if x is greater than y
- `x %in% c(a, b, c)`, TRUE if x is in the vector `c(a, b, c)`

- a. What are some potential subsets of your data that seem interesting and worth investigation to you?

I will be investigating the proportionality of the population of each Asian subgroup in relationship with total population of King County for the first visual, and faceting 11 maps depicting each Asian subgroup, plus Asian alone group and total population to geographically represent each group by tract representation for the second visual representation.

- b. Use at least two of the logical operators presented above to print these subsets of your data.

```
testAsian <- Data_Asian_Alone %>%
  filter (Count >= 100 & Count <= 200)
```

7. R also comes with a set of boolean operators that you can use to combine multiple logical tests into a single test. These include `&` (and), `|` (or), and `!` (not). Instead of using the `&` operator, you can also pass several logical tests to `filter()`, separated by commas. `is.na()` will also come in handy.

```
#filter(Data_Asian_Alone, Count > 100 & POPGROUP.id == "015")
Data_Asian_Alone %>%
  filter(!is.na(Count))
```

```
## # A tibble: 1,360 x 7
##   POPGROUP.id
##   <chr>
## 1      012
```

```
## 2      016
## 3      019
## 4      031
## 5      012
## 6      016
## 7      019
## 8      022
## 9      023
## 10     029
## # ... with 1,350 more rows, and 6 more variables:
## #   `POPGROUP.display-label` <chr>, GEO.id <chr>, GEO.id2 <chr>,
## #   `GEO.display-label` <chr>, D001 <chr>, Count <dbl>
```

- Use R's logical and boolean operators to select just the rows in your data that meet a specific boolean condition.
- Print out all of the observations in your data in which none of variables are NA.

```
is.na(AsianAlone)
```

```
##      POPGROUP.id POPGROUP.display-label GEO.id GEO.id2
## [1,]      FALSE      FALSE FALSE FALSE
## [2,]      FALSE      FALSE FALSE FALSE
## [3,]      FALSE      FALSE FALSE FALSE
## [4,]      FALSE      FALSE FALSE FALSE
## [5,]      FALSE      FALSE FALSE FALSE
## [6,]      FALSE      FALSE FALSE FALSE
## [7,]      FALSE      FALSE FALSE FALSE
## [8,]      FALSE      FALSE FALSE FALSE
## [9,]      FALSE      FALSE FALSE FALSE
## [10,]     FALSE      FALSE FALSE FALSE
## [11,]     FALSE      FALSE FALSE FALSE
## [12,]     FALSE      FALSE FALSE FALSE
## [13,]     FALSE      FALSE FALSE FALSE
## [14,]     FALSE      FALSE FALSE FALSE
## [15,]     FALSE      FALSE FALSE FALSE
## [16,]     FALSE      FALSE FALSE FALSE
## [17,]     FALSE      FALSE FALSE FALSE
## [18,]     FALSE      FALSE FALSE FALSE
## [19,]     FALSE      FALSE FALSE FALSE
## [20,]     FALSE      FALSE FALSE FALSE
## [21,]     FALSE      FALSE FALSE FALSE
## [22,]     FALSE      FALSE FALSE FALSE
## [23,]     FALSE      FALSE FALSE FALSE
## [24,]     FALSE      FALSE FALSE FALSE
## [25,]     FALSE      FALSE FALSE FALSE
## [26,]     FALSE      FALSE FALSE FALSE
## [27,]     FALSE      FALSE FALSE FALSE
## [28,]     FALSE      FALSE FALSE FALSE
## [29,]     FALSE      FALSE FALSE FALSE
## [30,]     FALSE      FALSE FALSE FALSE
## [31,]     FALSE      FALSE FALSE FALSE
## [32,]     FALSE      FALSE FALSE FALSE
## [33,]     FALSE      FALSE FALSE FALSE
## [34,]     FALSE      FALSE FALSE FALSE
## [35,]     FALSE      FALSE FALSE FALSE
```

##	[36,]	FALSE	FALSE	FALSE	FALSE
##	[37,]	FALSE	FALSE	FALSE	FALSE
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##	[39,]	FALSE	FALSE	FALSE	FALSE
##	[40,]	FALSE	FALSE	FALSE	FALSE
##	[41,]	FALSE	FALSE	FALSE	FALSE
##	[42,]	FALSE	FALSE	FALSE	FALSE
##	[43,]	FALSE	FALSE	FALSE	FALSE
##	[44,]	FALSE	FALSE	FALSE	FALSE
##	[45,]	FALSE	FALSE	FALSE	FALSE
##	[46,]	FALSE	FALSE	FALSE	FALSE
##	[47,]	FALSE	FALSE	FALSE	FALSE
##	[48,]	FALSE	FALSE	FALSE	FALSE
##	[49,]	FALSE	FALSE	FALSE	FALSE
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##	[59,]	FALSE	FALSE	FALSE	FALSE
##	[60,]	FALSE	FALSE	FALSE	FALSE
##	[61,]	FALSE	FALSE	FALSE	FALSE
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##	[63,]	FALSE	FALSE	FALSE	FALSE
##	[64,]	FALSE	FALSE	FALSE	FALSE
##	[65,]	FALSE	FALSE	FALSE	FALSE
##	[66,]	FALSE	FALSE	FALSE	FALSE
##	[67,]	FALSE	FALSE	FALSE	FALSE
##	[68,]	FALSE	FALSE	FALSE	FALSE
##	[69,]	FALSE	FALSE	FALSE	FALSE
##	[70,]	FALSE	FALSE	FALSE	FALSE
##	[71,]	FALSE	FALSE	FALSE	FALSE
##	[72,]	FALSE	FALSE	FALSE	FALSE
##	[73,]	FALSE	FALSE	FALSE	FALSE
##	[74,]	FALSE	FALSE	FALSE	FALSE
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##	[77,]	FALSE	FALSE	FALSE	FALSE
##	[78,]	FALSE	FALSE	FALSE	FALSE
##	[79,]	FALSE	FALSE	FALSE	FALSE
##	[80,]	FALSE	FALSE	FALSE	FALSE
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##	[259,]	FALSE	FALSE	FALSE	FALSE
##	[260,]	FALSE	FALSE	FALSE	FALSE
##	[261,]	FALSE	FALSE	FALSE	FALSE
##	[262,]	FALSE	FALSE	FALSE	FALSE
##	[263,]	FALSE	FALSE	FALSE	FALSE
##	[264,]	FALSE	FALSE	FALSE	FALSE
##	[265,]	FALSE	FALSE	FALSE	FALSE
##	[266,]	FALSE	FALSE	FALSE	FALSE
##	[267,]	FALSE	FALSE	FALSE	FALSE
##	[268,]	FALSE	FALSE	FALSE	FALSE
##	[269,]	FALSE	FALSE	FALSE	FALSE
##	[270,]	FALSE	FALSE	FALSE	FALSE
##	[271,]	FALSE	FALSE	FALSE	FALSE
##	[272,]	FALSE	FALSE	FALSE	FALSE
##	[273,]	FALSE	FALSE	FALSE	FALSE
##	[274,]	FALSE	FALSE	FALSE	FALSE
##	[275,]	FALSE	FALSE	FALSE	FALSE
##	[276,]	FALSE	FALSE	FALSE	FALSE
##	[277,]	FALSE	FALSE	FALSE	FALSE
##	[278,]	FALSE	FALSE	FALSE	FALSE
##	[279,]	FALSE	FALSE	FALSE	FALSE
##	[280,]	FALSE	FALSE	FALSE	FALSE
##	[281,]	FALSE	FALSE	FALSE	FALSE
##	[282,]	FALSE	FALSE	FALSE	FALSE
##	[283,]	FALSE	FALSE	FALSE	FALSE
##	[284,]	FALSE	FALSE	FALSE	FALSE
##	[285,]	FALSE	FALSE	FALSE	FALSE
##	[286,]	FALSE	FALSE	FALSE	FALSE
##	[287,]	FALSE	FALSE	FALSE	FALSE
##	[288,]	FALSE	FALSE	FALSE	FALSE
##	[289,]	FALSE	FALSE	FALSE	FALSE
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##	[291,]	FALSE	FALSE	FALSE	FALSE
##	[292,]	FALSE	FALSE	FALSE	FALSE
##	[293,]	FALSE	FALSE	FALSE	FALSE
##	[294,]	FALSE	FALSE	FALSE	FALSE
##	[295,]	FALSE	FALSE	FALSE	FALSE
##	[296,]	FALSE	FALSE	FALSE	FALSE
##	[297,]	FALSE	FALSE	FALSE	FALSE
##	[298,]	FALSE	FALSE	FALSE	FALSE
##	[299,]	FALSE	FALSE	FALSE	FALSE
##	[300,]	FALSE	FALSE	FALSE	FALSE
##	[301,]	FALSE	FALSE	FALSE	FALSE
##	[302,]	FALSE	FALSE	FALSE	FALSE
##	[303,]	FALSE	FALSE	FALSE	FALSE
##	[304,]	FALSE	FALSE	FALSE	FALSE
##	[305,]	FALSE	FALSE	FALSE	FALSE

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```

```
anyNA(AsianAlone, recursive= TRUE)
```

```
## [1] FALSE
```

```
#there are no observations NA in AsianALone table
```

8. `arrange()` can be used to rearrange rows according to any type of data. If you pass `arrange()` a character variable, for example, R will rearrange the rows in alphabetical order according to values of the variable. If you pass a factor variable, R will rearrange the rows according to the order of the levels in your factor (running `levels()` on the variable reveals this order).

```
testAsian_b <-
  select(AsianAlone, starts_with("A")) %>%
    arrange(Asiansubgroups)
```

By default, `arrange()` arranges the rows from smallest to largest. Rows with the smallest value of the variable will appear at the top of the data set. You can reverse this behavior with the `desc()` function. `arrange()` will reorder the rows from largest to smallest values of a variable if you wrap the variable name in `desc()` before passing it to `arrange()`.

- a. Which variable(s) in your dataset would be logical to arrange your data on? Explain your reasoning.

From the main AsianAlone dataset, it is not important to arrange the data in a specific order as it is a categorical descriptive analysis of each subgroup and its population represented.

- b. Arrange your data by this/these variables and print the results.

NA

9. You can use any function you like in `summarise()` so long as the function can take a vector of data and return a single number. R contains many aggregating functions, as `dplyr` calls them:

- `min(x)` - minimum value of vector `x`.
- `max(x)` - maximum value of vector `x`.
- `mean(x)` - mean value of vector `x`.
- `median(x)` - median value of vector `x`.
- `quantile(x, p)` - pth quantile of vector `x`.
- `sd(x)` - standard deviation of vector `x`.
- `var(x)` - variance of vector `x`.
- `IQR(x)` - Inter Quartile Range (IQR) of vector `x`.
- `diff(range(x))` - total range of vector `x`.

- a. Pick at least one variable of interest to your project analysis.
- b. Print out at least three summary statistics using `summarise()`.

```
as.numeric(AsianAlone$D001)
```

```
##      [1]  904  282  184 1073 1325  475  226  119  124  123 1554  374  126
##      [14]  469  735  183  148  156  855  402  132  522  217  280 1403  478
##      [27]  235  141 1617  720  226  135  835  289  125  365  196  256  260
##      [40]  108  313  301  121  358 1056  346  145  140 1227  687  200  171
##      [53]  792  346  463  130  244  339  431  116  546  419  124  508  608
##      [66]  177  766  554  152  688  283  113  385  400  138  494  549  254
##      [79]  685  273  102  375  235  324  366  116  519  386  121  549  246
##      [92]  400  176  273  228  355  239  373  284  434  324  467  127  189
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##     [118]  817  308  139  183 1030  683  209  124  110  921  444  149  110
##     [131]  578  656  314  787  804  290  119 1033  169  259  187  268  375
##     [144]  523  242  342  361  528  250  333  246  359 1621  636  117  109
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##     [170]  147  114  129  317  176 2135  399  553  285  417  451  166  601
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##     [326] 1865 1361  231  365  134  388 1570  813  199  177  124  196  928
```


##	[339]	1489	207	600	420	1658	2572	1171	373	189	565	2722	2515	1215
##	[352]	695	113	294	2679	355	527	352	550	550	132	203	628	508
##	[365]	213	571	1126	309	445	1254	126	140	1981	486	293	846	2098
##	[378]	2547	1283	425	549	2677	2098	244	667	143	821	2233	1216	123
##	[391]	403	310	1311	617	147	271	671	1212	154	373	418	1398	616
##	[404]	224	157	749	689	287	178	784	293	109	408	273	415	2768
##	[417]	749	657	111	151	842	2902	1949	108	229	632	196	544	2123
##	[430]	2357	317	744	187	278	608	2606	195	303	131	210	248	351
##	[443]	643	263	129	745	1383	341	244	388	147	1553	444	120	555
##	[456]	649	127	133	114	805	1073	323	270	122	106	1235	738	198
##	[469]	208	821	563	164	145	647	323	122	411	518	168	108	594
##	[482]	1011	222	283	129	150	1167	624	174	130	746	504	128	136
##	[495]	616	197	294	340	102	481	457	162	556	929	263	165	136
##	[508]	1119	989	139	1118	244	349	247	317	590	108	117	719	1210
##	[521]	138	225	175	1324	510	134	614	616	185	100	701	463	151
##	[534]	561	516	102	649	718	131	849	467	117	100	548	435	132
##	[547]	532	698	278	863	263	337	679	153	103	901	526	182	671
##	[560]	164	231	544	186	739	618	162	815	955	274	1117	532	133
##	[573]	652	1144	292	1277	954	303	106	1071	305	349	285	371	296
##	[586]	349	3312	655	3495	1218	423	1320	1982	490	2107	727	308	812
##	[599]	1295	475	134	1453	907	346	113	1059	714	262	823	3063	461
##	[612]	102	3170	1171	316	147	1237	1112	389	103	175	1281	891	299
##	[625]	127	994	585	204	674	362	146	435	719	232	110	109	822
##	[638]	931	410	152	1006	2192	425	2327	1392	469	118	131	1533	629
##	[651]	266	748	486	166	137	544	1116	310	280	1179	1278	439	129
##	[664]	291	1347	939	379	117	172	1115	1682	588	110	544	1884	492
##	[677]	168	143	606	347	139	427	1364	618	167	226	1588	572	215
##	[690]	157	646	675	340	810	545	279	100	650	459	209	585	911
##	[703]	384	186	1014	1656	614	215	225	267	1823	1935	791	139	483
##	[716]	2102	1901	1094	108	221	252	2055	1049	523	104	208	1165	2567
##	[729]	1294	152	291	478	100	2798	1008	464	170	132	1145	1674	708
##	[742]	167	325	1878	1308	448	119	248	134	1498	1049	385	295	1179
##	[755]	965	282	152	256	1056	2413	736	259	657	2635	1492	352	193
##	[768]	432	1699	604	131	112	145	736	643	110	185	718	926	131
##	[781]	164	340	1089	836	119	117	332	974	1462	256	304	510	1591
##	[794]	1289	328	173	457	1430	792	184	199	925	669	199	146	760
##	[807]	566	253	715	477	246	569	871	119	250	180	994	1587	237
##	[820]	439	391	1762	1369	219	352	147	149	346	1533	1751	325	568
##	[833]	128	447	1931	2006	287	533	107	241	631	2199	794	106	151
##	[846]	190	948	520	127	238	539	681	133	159	807	1002	227	519
##	[859]	1086	527	105	244	580	721	101	290	849	1088	200	112	566
##	[872]	1193	1232	145	161	676	1337	635	101	274	698	472	163	538
##	[885]	531	109	215	598	1122	123	144	241	1266	1105	175	155	506
##	[898]	1219	650	106	357	756	273	368	175	121	114	186	337	442
##	[911]	341	416	535	112	571	716	111	252	812	1113	118	203	260
##	[924]	1274	734	125	112	871	460	148	549	410	116	505	383	521
##	[937]	396	113	497	250	309	863	233	191	1004	319	126	402	595
##	[950]	251	109	721	409	128	104	480	945	263	105	226	1093	210
##	[963]	262	921	139	331	145	1026	452	152	542	330	392	1224	100
##	[976]	109	304	223	1405	531	118	685	345	127	430	2054	412	469
##	[989]	457	2261	985	229	260	168	1126	1024	110	240	197	1102	954
##	[1002]	147	231	223	1041	588	131	726	1583	159	328	249	1744	1281
##	[1015]	141	319	256	1457	1403	117	178	320	189	1584	906	180	199
##	[1028]	1019	793	224	130	913	1674	102	103	281	341	1860	1523	260

```
## [1041] 183 1721 662 150 130 822 1442 367 301 1645 959 142 177
## [1054] 1120 446 101 584 859 191 131 1036 1268 123 296 302 147
## [1067] 1497 483 157 571 644 119 212 113 739 672 204 107 814
## [1080] 1193 113 313 206 235 1390 579 144 110 116 691 434 222
## [1093] 498 841 126 379 988 617 171 175 775 766 205 269 924
## [1106] 401 201 478 443 108 143 581 502 105 176 658 1241 118
## [1119] 250 566 1431 1073 120 157 488 1251 1512 134 254 715 160
## [1132] 1682 332 121 472 506 147 649 388 174 466 550 157 146
## [1145] 648 1298 191 633 1497 674 105 306 783 366 184 446 363
## [1158] 135 434 205 269 228 306 156 213 130 209 165 240 397
## [1171] 148 473 541 269 656 289 393 325 117 455 135 190 147
## [1184] 239 922 172 125 149 1043 509 164 589 195 291 229 344
## [1197] 249 397 108 604 153 757 748 199 143 925 376 121 458
## [1210] 795 237 987 692 143 812 413 102 531 143 521 128 615
## [1223] 1597 345 414 138 113 229 1874 443 104 568 541 135 124
## [1236] 654 141 142 233 405 120 192 140 188 232 375 192 296
## [1249] 105 150 291 109 400 365 168 490 1112 447 1250 407 178
## [1262] 480 1185 342 111 160 1325 2723 792 150 114 499 3053 1092
## [1275] 476 111 115 1241 1862 689 159 176 2092 597 203 119 694
## [1288] 2099 674 108 2277 1168 435 120 1321 252 407 1422 376 149
## [1301] 105 1544 229 343 1973 353 2073 233 360 985 411 1115 672
## [1314] 244 823 1207 541 1379 376 455 224 320 1102 375 1239 323
## [1327] 406 1066 350 1194 740 202 876 1253 335 1414 249 314 262
## [1340] 112 313 192 263 2047 511 125 2241 133 226 151 269 158
## [1353] 225 1020 199 121 100 1285 171 132
```

```
testasian_c <- summarise(AsianAlone,
                          mean(as.numeric(D001), na.rm = TRUE))
```

10. `dplyr` provides several helpful aggregate functions of its own, in addition to the ones that are already defined in R. These include:

- `first(x)` - The first element of vector `x`.
- `last(x)` - The last element of vector `x`.
- `nth(x, n)` - The `n`th element of vector `x`.
- `n()` - The number of rows in the data.frame or group of observations that `summarise()` describes.
- `n_distinct(x)` - The number of unique values in vector `x`.

Next to these `dplyr`-specific functions, you can also turn a logical test into an aggregating function with `sum()` or `mean()`. A logical test returns a vector of `TRUE`'s and `FALSE`'s. When you apply `sum()` or `mean()` to such a vector, R coerces each `TRUE` to a 1 and each `FALSE` to a 0. `sum()` then represents the total number of observations that passed the test; `mean()` represents the proportion.

- Print out a summary of your data using at least two of these `dplyr`-specific aggregate functions.
- Why did you choose the ones you did? What did you learn about your data from these summaries?

11. You can also combine `group_by()` with `mutate()`. When you mutate grouped data, `mutate()` will calculate the new variables independently for each group. This is particularly useful when `mutate()` uses the `rank()` function, that calculates within-group rankings. `rank()` takes a group of values and calculates the rank of each value within the group, e.g.

```
rank(c(21, 22, 24, 23))
```

has the output

```
[1] 1 2 4 3
```

As with `arrange()`, `rank()` ranks values from the smallest to the largest.

- a. Using the %>% operator, first group your dataset by a meaningful variable, then perform a mutation that you're interested in.
- b. What do the results tell you about different groups in your data?

```
#a.
barpop <- mergedata %>%
mutate(Asiansubgroup = `POPGROUP.display-label`) %>%
group_by(POPGROUP.id, Asiansubgroup) %>%
summarise(subopttotal = sum(Count)) %>%
mutate(subgroup_prop = round(subopttotal/sum(data_subset_total$TotalCount), 5)) %>%
filter(POPGROUP.id != "031")
```

#b. The results show the proportion of each Asian subgroup with the total population in King County. The

12. The exercises so far have tried to get you to think about how to apply the five verbs of `dplyr` to your data.

- a. Are there any specific transformations you want to make to your data? What are they and what aspect of your research question will they help you to answer?

The transformations have been divided in two groups. One is the above mentioned population representation of each Asian subgroup in relationship with the total population. The other is the representation of each subgroup in each tract in King County. With both visual representations, I hope to convey the diversity of the Asian population, emphasizing the large gap in population representation, and other socioeconomic variables, to debunk pervasive narratives that group together “Asians”, and outcomes in narrative, discourse and policies that affect particularly the subgroups marginalized voices.

- b. In a code chunk below, carry out all the data transformations you wish to perform on your data. Utilize the %>% operator to tie multiple commands together and make your code more readable and efficient. Remember to comment your code so it is clear why you are doing things a certain way.

```
#this is the same code performed in Lab8

AsianAlone <- AsianAlone[-1,]
prop_data <- AsianAlone %>%
  mutate(Count = as.numeric(as.character(D001)),
         POPGROUP.id = as.numeric(as.character(POPGROUP.id)))
# Make new count variable which is numeric version of D001

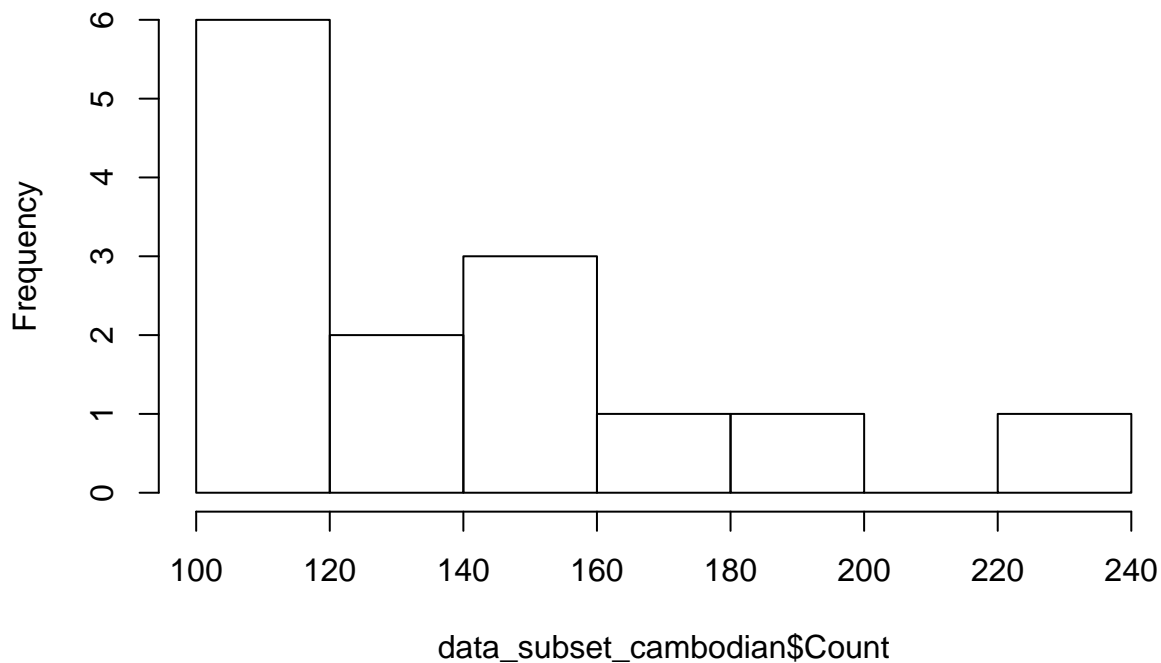
prop_data %>%
  group_by(POPGROUP.id) %>% # Group by ethnicity/subgroup
  summarise(Total_pop = sum(Count)) %>% # Sum within subgroup
  filter(POPGROUP.id != 031) %>% # Remove asian and other
  mutate(Total_Asian = sum(Total_pop), # Create total asian pop variable
         proportion = Total_pop/Total_Asian) # Creating proportion of subgroup of total Asians
```

```
## # A tibble: 10 x 4
##   POPGROUP.id Total_pop Total_Asian  proportion
##   <dbl>      <dbl>      <dbl>      <dbl>
## 1         12    279911    427208 0.6552101084
## 2         15     1955    427208 0.0045762252
## 3         16    59682    427208 0.1397024400
## 4         18     681    427208 0.0015940713
## 5         19    31990    427208 0.0748815565
## 6         20     175    427208 0.0004096365
## 7         22     6097    427208 0.0142717365
## 8         23    16467    427208 0.0385456265
```

```
## 9          24      1286      427208 0.0030102433
## 10         29     28964      427208 0.0677983558
```

```
hist(data_subset_cambodian$Count)
```

Histogram of data_subset_cambodian\$Count



```
#Changing factors to numeric on D001 column/population
```

```
pop.chinese <- sum(as.numeric(data_subset_chinese$D001), na.rm=FALSE)
```

```
## Warning: Unknown or uninitialised column: 'D001'.
```

```
pop.cambodian <- sum(as.numeric(data_subset_cambodian$D001), na.rm=FALSE)
```

```
## Warning: Unknown or uninitialised column: 'D001'.
```

```
pop.japanese <- sum(as.numeric(data_subset_japanese$D001), na.rm=FALSE)
```

```
## Warning: Unknown or uninitialised column: 'D001'.
```

```
pop.korean <- sum(as.numeric(data_subset_korean$D001), na.rm=FALSE)
```

```
## Warning: Unknown or uninitialised column: 'D001'.
```

```
pop.laotian <- sum(as.numeric(data_subset_laotian$D001), na.rm=FALSE)
```

```
## Warning: Unknown or uninitialised column: 'D001'.
```

```
pop.hmong <- sum(as.numeric(data_subset_hmong$D001), na.rm=FALSE)
```

```
## Warning: Unknown or uninitialised column: 'D001'.
```

```
pop.taiwanese <- sum(as.numeric(data_subset_taiwanese$D001), na.rm=FALSE)
```

```
## Warning: Unknown or uninitialised column: 'D001'.
```

```

pop.vietnames <- sum(as.numeric(data_subset_vietnamese$D001), na.rm=FALSE)

## Warning: Unknown or uninitialised column: 'D001'.
pop.filipino <- sum(as.numeric(data_subset_filipino$D001), na.rm=FALSE)

## Warning: Unknown or uninitialised column: 'D001'.
pop <- c(pop.chinese, pop.cambodian, pop.japanese, pop.korean, pop.laotian,
        pop.hmong, pop.taiwanese, pop.vietnames, pop.filipino) %>% as.data.frame() %>% t()

colnames(pop) <- c("Chinese", "Cambodian", "Japanese", "Korean", "Laotian",
                  "Hmong", "Taiwanese", "Vietnames", "Filipino")

asian.pop <- data.frame("Chinese", pop.chinese, stringsAsFactors = FALSE)
names(asian.pop) <- c("Asian Population", "Total Population")
asian.pop[nrow(asian.pop) + 1,] = c("Cambodian", pop.cambodian)

```