DSC 520 Assignment 2.3

Demond Love

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**There are several different ways to import text files (.csv is a common text file) in R as you have learned. Use one of those import methods to import your dataset for this assignment. Remember to make sure you setup a Project and have set your working directory as needed (hint: setwd(“…..”).Choose one of the Weather datasets [AKWeather or NEWeather] to use for this activity.**

**What categories/variables of data do you have in your Weather dataset?**

akweather = read.csv("akweather.csv", stringsAsFactors = FALSE)  
akweather

## STATION NAME DATE TMAX TMIN  
## 1 USW00026533 BETTLES AIRPORT, AK US 2016-03-01 29 3  
## 2 USW00026533 BETTLES AIRPORT, AK US 2016-03-02 23 -1  
## 3 USW00026533 BETTLES AIRPORT, AK US 2016-03-03 19 2  
## 4 USW00026533 BETTLES AIRPORT, AK US 2016-03-04 25 14  
## 5 USW00026533 BETTLES AIRPORT, AK US 2016-03-05 22 -1  
## 6 USW00026533 BETTLES AIRPORT, AK US 2016-03-06 21 -6  
## 7 USW00026533 BETTLES AIRPORT, AK US 2016-03-07 19 -15  
## 8 USW00026533 BETTLES AIRPORT, AK US 2016-03-08 20 -14  
## 9 USW00026533 BETTLES AIRPORT, AK US 2016-03-09 23 -7  
## 10 USW00026533 BETTLES AIRPORT, AK US 2016-03-10 23 -1  
## 11 USW00026533 BETTLES AIRPORT, AK US 2016-03-11 17 7  
## 12 USW00026533 BETTLES AIRPORT, AK US 2016-03-12 20 6  
## 13 USW00026533 BETTLES AIRPORT, AK US 2016-03-13 14 7  
## 14 USW00026533 BETTLES AIRPORT, AK US 2016-03-14 15 1  
## 15 USW00026533 BETTLES AIRPORT, AK US 2016-03-15 13 6  
## 16 USW00026533 BETTLES AIRPORT, AK US 2016-03-16 13 2  
## 17 USW00026533 BETTLES AIRPORT, AK US 2016-03-17 7 -20  
## 18 USW00026533 BETTLES AIRPORT, AK US 2016-03-18 13 -18  
## 19 USW00026533 BETTLES AIRPORT, AK US 2016-03-19 20 -9  
## 20 USW00026533 BETTLES AIRPORT, AK US 2016-03-20 31 10  
## 21 USW00026533 BETTLES AIRPORT, AK US 2016-03-21 29 3  
## 22 USW00026533 BETTLES AIRPORT, AK US 2016-03-22 29 4  
## 23 USW00026533 BETTLES AIRPORT, AK US 2016-03-23 33 5  
## 24 USW00026533 BETTLES AIRPORT, AK US 2016-03-24 36 -1  
## 25 USW00026533 BETTLES AIRPORT, AK US 2016-03-25 36 22  
## 26 USW00026533 BETTLES AIRPORT, AK US 2016-03-26 37 22  
## 27 USW00026533 BETTLES AIRPORT, AK US 2016-03-27 27 12  
## 28 USW00026533 BETTLES AIRPORT, AK US 2016-03-28 23 4  
## 29 USW00026533 BETTLES AIRPORT, AK US 2016-03-29 22 -9  
## 30 USW00026533 BETTLES AIRPORT, AK US 2016-03-30 25 -9  
## 31 USW00026533 BETTLES AIRPORT, AK US 2016-03-31 22 7  
## 32 USW00026533 BETTLES AIRPORT, AK US 2016-04-01 19 10  
## 33 USW00026533 BETTLES AIRPORT, AK US 2016-04-02 22 6  
## 34 USW00026533 BETTLES AIRPORT, AK US 2016-04-03 32 14  
## 35 USW00026533 BETTLES AIRPORT, AK US 2016-04-04 35 13  
## 36 USW00026533 BETTLES AIRPORT, AK US 2016-04-05 37 -2  
## 37 USW00026533 BETTLES AIRPORT, AK US 2016-04-06 33 -3  
## 38 USW00026533 BETTLES AIRPORT, AK US 2016-04-07 38 7  
## 39 USW00026533 BETTLES AIRPORT, AK US 2016-04-08 31 16  
## 40 USW00026533 BETTLES AIRPORT, AK US 2016-04-09 37 22  
## 41 USW00026533 BETTLES AIRPORT, AK US 2016-04-10 44 23  
## 42 USW00026533 BETTLES AIRPORT, AK US 2016-04-11 42 20  
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## 47 USW00026533 BETTLES AIRPORT, AK US 2016-04-16 32 12  
## 48 USW00026533 BETTLES AIRPORT, AK US 2016-04-17 39 10  
## 49 USW00026533 BETTLES AIRPORT, AK US 2016-04-18 46 20  
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## 637 USW00026533 BETTLES AIRPORT, AK US 2017-11-27 -2 -13  
## 638 USW00026533 BETTLES AIRPORT, AK US 2017-11-28 -2 -17  
## 639 USW00026533 BETTLES AIRPORT, AK US 2017-11-29 10 -5  
## 640 USW00026533 BETTLES AIRPORT, AK US 2017-11-30 9 -6  
## 641 USW00026533 BETTLES AIRPORT, AK US 2017-12-01 15 5  
## 642 USW00026533 BETTLES AIRPORT, AK US 2017-12-02 17 3  
## 643 USW00026533 BETTLES AIRPORT, AK US 2017-12-03 17 8  
## 644 USW00026533 BETTLES AIRPORT, AK US 2017-12-04 23 11  
## 645 USW00026533 BETTLES AIRPORT, AK US 2017-12-05 22 1  
## 646 USW00026533 BETTLES AIRPORT, AK US 2017-12-06 27 19  
## 647 USW00026533 BETTLES AIRPORT, AK US 2017-12-07 26 14  
## 648 USW00026533 BETTLES AIRPORT, AK US 2017-12-08 26 17  
## 649 USW00026533 BETTLES AIRPORT, AK US 2017-12-09 20 13  
## 650 USW00026533 BETTLES AIRPORT, AK US 2017-12-10 19 8  
## 651 USW00026533 BETTLES AIRPORT, AK US 2017-12-11 34 11  
## 652 USW00026533 BETTLES AIRPORT, AK US 2017-12-12 32 14  
## 653 USW00026533 BETTLES AIRPORT, AK US 2017-12-13 38 22  
## 654 USW00026533 BETTLES AIRPORT, AK US 2017-12-14 32 28  
## 655 USW00026533 BETTLES AIRPORT, AK US 2017-12-15 29 17  
## 656 USW00026533 BETTLES AIRPORT, AK US 2017-12-16 20 13  
## 657 USW00026533 BETTLES AIRPORT, AK US 2017-12-17 13 7  
## 658 USW00026533 BETTLES AIRPORT, AK US 2017-12-18 15 6  
## 659 USW00026533 BETTLES AIRPORT, AK US 2017-12-19 20 11  
## 660 USW00026533 BETTLES AIRPORT, AK US 2017-12-20 28 18  
## 661 USW00026533 BETTLES AIRPORT, AK US 2017-12-21 29 6  
## 662 USW00026533 BETTLES AIRPORT, AK US 2017-12-22 22 3  
## 663 USW00026533 BETTLES AIRPORT, AK US 2017-12-23 12 -5  
## 664 USW00026533 BETTLES AIRPORT, AK US 2017-12-24 3 -10  
## 665 USW00026533 BETTLES AIRPORT, AK US 2017-12-25 -4 -13  
## 666 USW00026533 BETTLES AIRPORT, AK US 2017-12-26 -7 -15  
## 667 USW00026533 BETTLES AIRPORT, AK US 2017-12-27 -5 -21  
## 668 USW00026533 BETTLES AIRPORT, AK US 2017-12-28 -10 -28  
## 669 USW00026533 BETTLES AIRPORT, AK US 2017-12-29 -2 -13  
## 670 USW00026533 BETTLES AIRPORT, AK US 2017-12-30 1 -4  
## 671 USW00026533 BETTLES AIRPORT, AK US 2017-12-31 8 -4  
## 672 USW00026533 BETTLES AIRPORT, AK US 2018-01-01 6 -10  
## 673 USW00026533 BETTLES AIRPORT, AK US 2018-01-02 23 3  
## 674 USW00026533 BETTLES AIRPORT, AK US 2018-01-03 24 0  
## 675 USW00026533 BETTLES AIRPORT, AK US 2018-01-04 19 8  
## 676 USW00026533 BETTLES AIRPORT, AK US 2018-01-05 14 1  
## 677 USW00026533 BETTLES AIRPORT, AK US 2018-01-06 5 -7  
## 678 USW00026533 BETTLES AIRPORT, AK US 2018-01-07 -2 -21  
## 679 USW00026533 BETTLES AIRPORT, AK US 2018-01-08 3 -28  
## 680 USW00026533 BETTLES AIRPORT, AK US 2018-01-09 0 -28  
## 681 USW00026533 BETTLES AIRPORT, AK US 2018-01-10 -22 -36  
## 682 USW00026533 BETTLES AIRPORT, AK US 2018-01-11 -7 -34  
## 683 USW00026533 BETTLES AIRPORT, AK US 2018-01-12 -5 -14  
## 684 USW00026533 BETTLES AIRPORT, AK US 2018-01-13 27 -11  
## 685 USW00026533 BETTLES AIRPORT, AK US 2018-01-14 24 6  
## 686 USW00026533 BETTLES AIRPORT, AK US 2018-01-15 10 -1  
## 687 USW00026533 BETTLES AIRPORT, AK US 2018-01-16 26 1  
## 688 USW00026533 BETTLES AIRPORT, AK US 2018-01-17 30 21  
## 689 USW00026533 BETTLES AIRPORT, AK US 2018-01-18 24 6  
## 690 USW00026533 BETTLES AIRPORT, AK US 2018-01-19 8 -12  
## 691 USW00026533 BETTLES AIRPORT, AK US 2018-01-20 -12 -35  
## 692 USW00026533 BETTLES AIRPORT, AK US 2018-01-21 -22 -44  
## 693 USW00026533 BETTLES AIRPORT, AK US 2018-01-22 -29 -46  
## 694 USW00026533 BETTLES AIRPORT, AK US 2018-01-23 -29 -42  
## 695 USW00026533 BETTLES AIRPORT, AK US 2018-01-24 -33 -40  
## 696 USW00026533 BETTLES AIRPORT, AK US 2018-01-25 -7 -35  
## 697 USW00026533 BETTLES AIRPORT, AK US 2018-01-26 -6 -14  
## 698 USW00026533 BETTLES AIRPORT, AK US 2018-01-27 -10 -32  
## 699 USW00026533 BETTLES AIRPORT, AK US 2018-01-28 -19 -30  
## 700 USW00026533 BETTLES AIRPORT, AK US 2018-01-29 -19 -34  
## 701 USW00026533 BETTLES AIRPORT, AK US 2018-01-30 -23 -37  
## 702 USW00026533 BETTLES AIRPORT, AK US 2018-01-31 -9 -31  
## 703 USW00026533 BETTLES AIRPORT, AK US 2018-02-01 -8 -23  
## 704 USW00026533 BETTLES AIRPORT, AK US 2018-02-02 -14 -31  
## 705 USW00026533 BETTLES AIRPORT, AK US 2018-02-03 -5 -24  
## 706 USW00026533 BETTLES AIRPORT, AK US 2018-02-04 -11 -28  
## 707 USW00026533 BETTLES AIRPORT, AK US 2018-02-05 1 -29  
## 708 USW00026533 BETTLES AIRPORT, AK US 2018-02-06 2 -13  
## 709 USW00026533 BETTLES AIRPORT, AK US 2018-02-07 -3 -25  
## 710 USW00026533 BETTLES AIRPORT, AK US 2018-02-08 -5 -28  
## 711 USW00026533 BETTLES AIRPORT, AK US 2018-02-09 -9 -26  
## 712 USW00026533 BETTLES AIRPORT, AK US 2018-02-10 -1 -30  
## 713 USW00026533 BETTLES AIRPORT, AK US 2018-02-11 16 -8  
## 714 USW00026533 BETTLES AIRPORT, AK US 2018-02-12 20 6  
## 715 USW00026533 BETTLES AIRPORT, AK US 2018-02-13 20 10  
## 716 USW00026533 BETTLES AIRPORT, AK US 2018-02-14 21 15  
## 717 USW00026533 BETTLES AIRPORT, AK US 2018-02-15 15 1  
## 718 USW00026533 BETTLES AIRPORT, AK US 2018-02-16 5 -20  
## 719 USW00026533 BETTLES AIRPORT, AK US 2018-02-17 7 -21  
## 720 USW00026533 BETTLES AIRPORT, AK US 2018-02-18 14 1  
## 721 USW00026533 BETTLES AIRPORT, AK US 2018-02-19 19 2  
## 722 USW00026533 BETTLES AIRPORT, AK US 2018-02-20 30 14  
## 723 USW00026533 BETTLES AIRPORT, AK US 2018-02-21 27 13  
## 724 USW00026533 BETTLES AIRPORT, AK US 2018-02-22 24 19  
## 725 USW00026533 BETTLES AIRPORT, AK US 2018-02-23 22 4  
## 726 USW00026533 BETTLES AIRPORT, AK US 2018-02-24 4 -21  
## 727 USW00026533 BETTLES AIRPORT, AK US 2018-02-25 4 -23  
## 728 USW00026533 BETTLES AIRPORT, AK US 2018-02-26 4 -11  
## 729 USW00026533 BETTLES AIRPORT, AK US 2018-02-27 8 -22

\*\*Use the following R functions: View(); str(); nrow(); ncol() to investigate the dataset you are working with. Report the output from each function and provide a brief explanation of the output. Remember the following resources, outside of R Studio can be used for additional help: Google – Just add R to the end of your search criteria R Bloggers - [https://www.r-bloggers.com/\*\*](https://www.r-bloggers.com/**)

# View(akweather)

This function produces the equivalent of an Excel Spreadsheet of your dataset. It is maybe my favorite feature so far when comparing it to Python. Coming from SQL, seeing the data in a true tabular format is much more intuitive for me.

str(akweather)

## 'data.frame': 729 obs. of 5 variables:  
## $ STATION: chr "USW00026533" "USW00026533" "USW00026533" "USW00026533" ...  
## $ NAME : chr "BETTLES AIRPORT, AK US" "BETTLES AIRPORT, AK US" "BETTLES AIRPORT, AK US" "BETTLES AIRPORT, AK US" ...  
## $ DATE : chr "2016-03-01" "2016-03-02" "2016-03-03" "2016-03-04" ...  
## $ TMAX : int 29 23 19 25 22 21 19 20 23 23 ...  
## $ TMIN : int 3 -1 2 14 -1 -6 -15 -14 -7 -1 ...

This function shows the structure of a dataset. Which will display the class, the number of rows, the number of columns, the class of the values in the rows, etc.

nrow(akweather)

## [1] 729

The nrow function will display the number of rows in a dataset.

ncol(akweather)

## [1] 5

The ncol function will display the number of column in a dataset.

**For the Weather dataset you chose, what levels of measurement are included?**

Within the dataset, the Tmax and Tmin are both ratio variables, which means that in addition to the measurement scale meeting the requirements of an interval variable, the ratios of values along the scale should be meaningful.

**Create a few vectors from your dataset and perform each of the following operations:**

tmax = akweather$TMAX  
tmin = akweather$TMIN

**max(x)**

max(tmax)

## [1] 88

max(tmin)

## [1] 64

**min(x)**

min(tmax)

## [1] -43

min(tmin)

## [1] -56

**sum(x)**

sum(tmax)

## [1] 26038

sum(tmin)

## [1] 11581

**mean(x)**

mean(tmax)

## [1] 35.71742

mean(tmin)

## [1] 15.88615

**median(x)**

median(tmax)

## [1] 38

median(tmin)

## [1] 19

**range(x)**

range(tmax)

## [1] -43 88

range(tmin)

## [1] -56 64

**var(x)**

var(tmax)

## [1] 846.5272

var(tmin)

## [1] 771.5708

**sd(x)**

sd(tmax)

## [1] 29.09514

sd(tmin)

## [1] 27.77716

**Choose 4 of the operations above and provide an explanation of the result for each.**

min(tmax)

## [1] -43

min(tmin)

## [1] -56

The min function pulls the lowest value from each of the vectors. Therefore, in this context, these are the coldest days in the dataset.

max(tmax)

## [1] 88

max(tmin)

## [1] 64

The max function pulls the highest value from each of the vectors. Therefore, in this context, these are the warmest days in the dataset.

median(tmax)

## [1] 38

median(tmin)

## [1] 19

The median function pulls the “middle” value in a result set. It divides a distribution in half, meaning that half of the observations lie abve the median and half lie below. (If there is an even number of observations, the median is the midpoint between the two middle observations.) Therefore, in this context, this is a great estimate for the average highest temperture, and the average coldest temperture per day.

sum(tmax)

## [1] 26038

sum(tmin)

## [1] 11581

The sum is simply the aggregate of all the numerical values in a dataset. However, in this context, this function provides us little, to no value, since the cumulative highest temperture doesn’t give us any new information without having another figure to compare it to.