Module 1 Assignment 3: Getting to Know your Home

Ellen Bledsoe

2022-09-19

4.

```
## # A tibble: 769 x 12
##     year   day month runni~1  hour  temp press~2 wind_~3 wind_~4 humid~5 delta_t
##    <dbl> <dbl> <dbl>   <dbl> <dbl> <dbl>   <dbl>   <dbl>   <dbl>   <dbl>   <dbl>
## 1  2018     5     1       5   300   0.2    985.     2.6     8       57      NA
## 2  2018     7     1       7  1800   0.2    988.     6.5    49.7    41.5     NA
## 3  2018     7     1       7  2100   1      988.     8      45      39.2     NA
## 4  2018     8     1       8     0   1.4    989.    10.2    44.4    34.4     NA
## 5  2018     8     1       8   300   0.5    991.     6     212.     68.7     NA
## 6  2018     8     1       8   600   0.3    992.     5.3   226.     72.6     NA
## 7  2018    20     1      20     0   1.3    969.    10.7   204.     34.8     NA
## 8  2018    20     1      20   300   2.6    968.    14.6   203.     23.8     NA
## 9  2018    20     1      20   600   1.9    968     11.5   216.     38.1     NA
## 10 2018    20     1      20   900   1.6    967.    15.6   200.     28.6     NA
## # ... with 759 more rows, 1 more variable: station_id <chr>, and abbreviated
## #   variable names 1: running_day, 2: pressure, 3: wind_speed,
## #   4: wind_direction, 5: humidity
## # i Use `print(n = ...)` to see more rows, and `colnames()` to see all variable names
```

6.

```
## # A tibble: 139,160 x 5
##     hour running_day month  temp station_id
##    <dbl>       <dbl> <dbl> <dbl> <chr>
## 1     0           1     1 -29.5 ag4201801q3h
## 2   300           1     1 -27.4 ag4201801q3h
## 3   600           1     1 -25.5 ag4201801q3h
## 4   900           1     1 -24.9 ag4201801q3h
## 5  1200           1     1 -25   ag4201801q3h
## 6  1500           1     1 -27.5 ag4201801q3h
## 7  1800           1     1 -30.3 ag4201801q3h
## 8  2100           1     1 -30.1 ag4201801q3h
## 9     0           2     1 -28.8 ag4201801q3h
## 10  300           2     1 -26.4 ag4201801q3h
## # ... with 139,150 more rows
## # i Use `print(n = ...)` to see more rows
```

7.

```
## # A tibble: 139,160 x 6
##      hour running_day month  temp station_id    tempF
##     <dbl>       <dbl> <dbl> <dbl> <chr>         <dbl>
## 1      0           1     1 -29.5 ag4201801q3h -21.1
## 2    300           1     1 -27.4 ag4201801q3h -17.3
## 3    600           1     1 -25.5 ag4201801q3h -13.9
## 4    900           1     1 -24.9 ag4201801q3h -12.8
## 5   1200           1     1 -25   ag4201801q3h -13
## 6   1500           1     1 -27.5 ag4201801q3h -17.5
## 7   1800           1     1 -30.3 ag4201801q3h -22.5
## 8   2100           1     1 -30.1 ag4201801q3h -22.2
## 9      0           2     1 -28.8 ag4201801q3h -19.8
## 10   300           2     1 -26.4 ag4201801q3h -15.5
## # ... with 139,150 more rows
## # i Use 'print(n = ...)' to see more rows
```

9.

```
## # A tibble: 12 x 2
##     month min_temp
##     <dbl>    <dbl>
## 1      1    -44.2
## 2      2    -59
## 3      3    -67.9
## 4      4    -72.3
## 5      5    -77.1
## 6      6    -76
## 7      7    -79.5
## 8      8    -80.2
## 9      9    -77.1
## 10    10    -70.8
## 11    11    -59.4
## 12    12    -41.3
```

10.

```
## # A tibble: 49 x 2
##     station_id   mean_temp
##     <chr>            <dbl>
## 1 ag4201801q3h     -31.4
## 2 bal201801q3h     -19.1
## 3 brp201801q3h      -6.05
## 4 byd201801q3h     -15.5
## 5 cbd201801q3h      -3.83
## 6 cha201801q3h      -3.04
## 7 d10201801q3h      -3.32
## 8 d47201801q3h     -13.4
## 9 d85201801q3h     -24.2
## 10 dc2201801q3h     -27.4
## # ... with 39 more rows
## # i Use 'print(n = ...)' to see more rows
```

Bonus! (up to 2 points)

```
## # A tibble: 1 x 1
##       n
##   <int>
## 1   571
```