

Module 1 Assignment 3: Getting to Know your Home

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5.

```
## # A tibble: 769 x 12
##   year   day month running_day hour  temp pressure wind_speed wind_direction
##   <dbl> <dbl> <dbl>      <dbl> <dbl> <dbl>    <dbl>    <dbl>          <dbl>
## 1 2018     5     1         5    300  0.2    985.      2.6           8
## 2 2018     7     1         7   1800  0.2    988.      6.5          49.7
## 3 2018     7     1         7   2100  1      988.      8           45
## 4 2018     8     1         8     0  1.4    989.     10.2          44.4
## 5 2018     8     1         8    300  0.5    991.      6          212.
## 6 2018     8     1         8    600  0.3    992.      5.3          226.
## 7 2018    20     1        20     0  1.3    969.     10.7          204.
## 8 2018    20     1        20    300  2.6    968.     14.6          203.
## 9 2018    20     1        20    600  1.9    968      11.5          216.
## 10 2018    20     1        20    900  1.6    967.     15.6          200.
## # i 759 more rows
## # i 3 more variables: humidity <dbl>, delta_t <dbl>, station_id <chr>
```

6.

```
## # A tibble: 139,160 x 5
##   year   day month  temp station_id
##   <dbl> <dbl> <dbl> <dbl> <chr>
## 1 2018     1     1 -29.5 ag4201801q3h
## 2 2018     1     1 -27.4 ag4201801q3h
## 3 2018     1     1 -25.5 ag4201801q3h
## 4 2018     1     1 -24.9 ag4201801q3h
## 5 2018     1     1 -25   ag4201801q3h
## 6 2018     1     1 -27.5 ag4201801q3h
## 7 2018     1     1 -30.3 ag4201801q3h
## 8 2018     1     1 -30.1 ag4201801q3h
## 9 2018     2     1 -28.8 ag4201801q3h
## 10 2018     2     1 -26.4 ag4201801q3h
## # i 139,150 more rows
```

7.

```
## # A tibble: 139,160 x 6
##   year   day month  temp station_id  tempF
##   <dbl> <dbl> <dbl> <dbl> <chr>      <dbl>
## 1 2018     1     1 -29.5 ag4201801q3h -21.1
```

```
## 2 2018      1      1 -27.4 ag4201801q3h -17.3
## 3 2018      1      1 -25.5 ag4201801q3h -13.9
## 4 2018      1      1 -24.9 ag4201801q3h -12.8
## 5 2018      1      1 -25    ag4201801q3h -13
## 6 2018      1      1 -27.5 ag4201801q3h -17.5
## 7 2018      1      1 -30.3 ag4201801q3h -22.5
## 8 2018      1      1 -30.1 ag4201801q3h -22.2
## 9 2018      2      1 -28.8 ag4201801q3h -19.8
## 10 2018     2      1 -26.4 ag4201801q3h -15.5
## # i 139,150 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
## # i 39 more rows
```

Bonus! (up to 2 points)

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