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.
## # ... with 759 more rows, and 3 more variables: humidity <dbl>, delta_t <dbl>,
## #   station_id <chr>
```

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
```

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
```

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
```

Bonus! (up to 2 points)

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