

## Module 3: Assignment 3

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2023-03-28

```
## # A tibble: 250 x 4
##   panel_id maker      direction watts_per_hour
##   <dbl> <chr>      <chr>          <dbl>
## 1      1      1 Solar Gain North      311.
## 2      2      2 Solar Gain North      309.
## 3      3      3 Solar Gain North      304.
## 4      4      4 Solar Gain North      309.
## 5      5      5 Solar Gain North      304.
## 6      6      6 Solar Gain North      304.
## 7      7      7 Solar Gain North      300.
## 8      8      8 Solar Gain North      308.
## 9      9      9 Solar Gain North      314.
## 10     10     10 Solar Gain North      304.
## # ... with 240 more rows
```

2.

```
## # A tibble: 100 x 4
##   panel_id maker      direction watts_per_hour
##   <dbl> <chr>      <chr>          <dbl>
## 1      1      1 Solar Gain North      311.
## 2      2      2 Solar Gain North      309.
## 3      3      3 Solar Gain North      304.
## 4      4      4 Solar Gain North      309.
## 5      5      5 Solar Gain North      304.
## 6      6      6 Solar Gain North      304.
## 7      7      7 Solar Gain North      300.
## 8      8      8 Solar Gain North      308.
## 9      9      9 Solar Gain North      314.
## 10     10     10 Solar Gain North      304.
## # ... with 90 more rows
```

4.

```
## # A tibble: 2 x 2
##   maker      mean
##   <chr>      <dbl>
## 1 Solar Gain    308.
## 2 Sunny Side Up 326.
```

9.

```
## # A tibble: 150 x 4
##   panel_id maker          direction watts_per_hour
##   <dbl> <chr>          <chr>          <dbl>
## 1     101 Panel du Soliel South          312.
## 2     102 Panel du Soliel South          303.
## 3     103 Panel du Soliel South          312.
## 4     104 Panel du Soliel South          306.
## 5     105 Panel du Soliel South          305.
## 6     106 Panel du Soliel South          314.
## 7     107 Panel du Soliel South          311.
## 8     108 Panel du Soliel South          308.
## 9     109 Panel du Soliel South          295.
## 10    110 Panel du Soliel South          313.
## # ... with 140 more rows
```

10.

```
## # A tibble: 3 x 2
##   maker          mean
##   <chr>          <dbl>
## 1 Bright Future    309.
## 2 Function in the Sun 318.
## 3 Panel du Soliel    307.
```

```
## Rows: 100 Columns: 4
## -- Column specification -----
## Delimiter: ","
## chr (2): maker, direction
## dbl (2): panel_id, watts_per_hour
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
## # A tibble: 100 x 4
##   panel_id maker          direction watts_per_hour
##   <dbl> <chr>          <chr>          <dbl>
## 1      1 Sunny Side Up North          325.
## 2      2 Sunny Side Up North          352.
## 3      3 Sunny Side Up North          357.
## 4      4 Sunny Side Up North          375.
## 5      5 Sunny Side Up North          290.
## 6      6 Sunny Side Up North          342.
## 7      7 Sunny Side Up North          367.
## 8      8 Sunny Side Up North          300.
## 9      9 Sunny Side Up North          330.
## 10     10 Sunny Side Up North          327.
## # ... with 90 more rows
```

14.

```
## # A tibble: 2 x 2
##   maker          mean
```

```
##    <chr>                <dbl>
## 1 Function in the Sun  321.
## 2 Sunny Side Up       330.
```