

Module 2, Assignment 3

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2.

```
## Rows: 320 Columns: 5
## -- Column specification -----
## Delimiter: ","
## dbl (5): tank_id, fish_id, perc_soy_protein, day_30_weight, avg_tank_temp
##
## 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: 6 x 5
##   tank_id fish_id perc_soy_protein day_30_weight avg_tank_temp
##   <dbl>   <dbl>         <dbl>         <dbl>         <dbl>
## 1      1      1           0.2           334.           77.2
## 2      1      2           0.2           198.           77.2
## 3      1      3           0.2           315.           77.2
## 4      1      4           0.2           316.           77.2
## 5      1      5           0.2            89.4          77.2
## 6      1      6           0.2            74.7          77.2
```

```
## # A tibble: 6 x 5
##   tank_id fish_id perc_soy_protein day_30_weight avg_tank_temp
##   <dbl>   <dbl>         <dbl>         <dbl>         <dbl>
## 1     16     315           0.8          1228.           76.1
## 2     16     316           0.8           630.           76.1
## 3     16     317           0.8           508.           76.1
## 4     16     318           0.8           443.           76.1
## 5     16     319           0.8           495.           76.1
## 6     16     320           0.8          1078.           76.1
```

5.

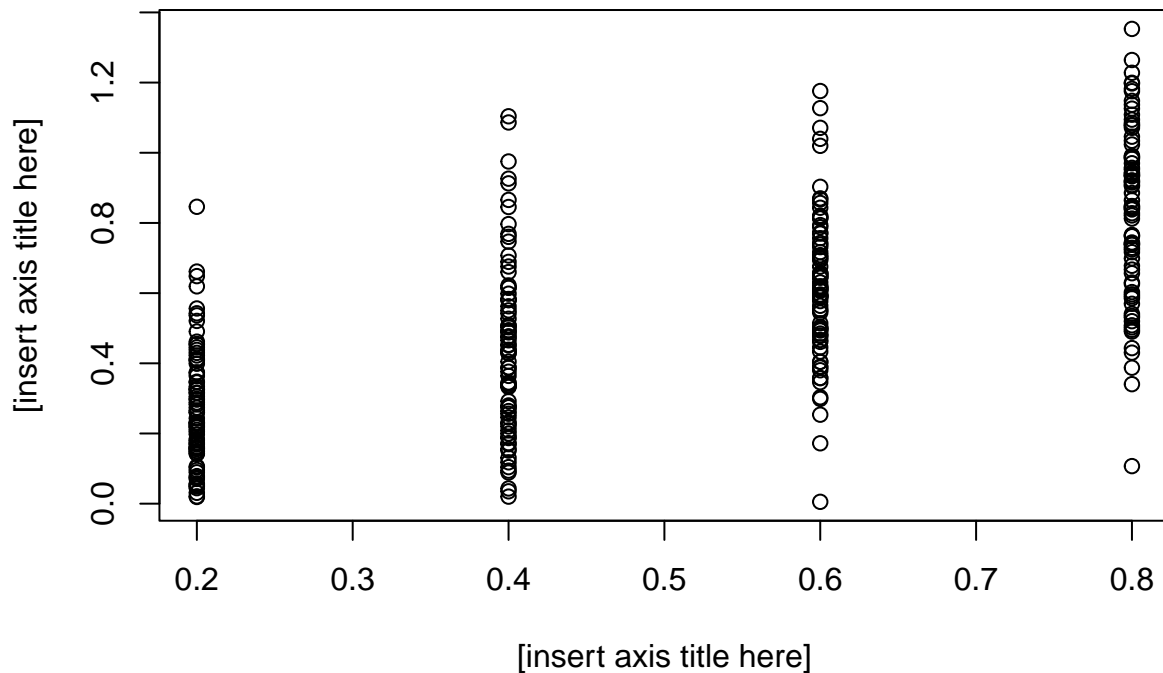
```
## # A tibble: 320 x 6
##   tank_id fish_id perc_soy_protein day_30_weight avg_tank_temp day_30_weight_kg
##   <dbl>   <dbl>         <dbl>         <dbl>         <dbl>         <dbl>
## 1      1      1           0.2           334.           77.2           0.334
## 2      1      2           0.2           198.           77.2           0.198
## 3      1      3           0.2           315.           77.2           0.315
## 4      1      4           0.2           316.           77.2           0.316
## 5      1      5           0.2            89.4          77.2           0.0894
## 6      1      6           0.2            74.7          77.2           0.0747
```

```
## 7      1      7      0.2      142.      77.2      0.142
## 8      1      8      0.2      20.8      77.2      0.0208
## 9      1      9      0.2      57.3      77.2      0.0573
## 10     1     10      0.2     159.      77.2      0.159
## # ... with 310 more rows
## # i Use 'print(n = ...)' to see more rows
```

6.

```
## # A tibble: 4 x 2
##   perc_soy_protein mean_weight_kg
##   <dbl>          <dbl>
## 1      0.2      0.276
## 2      0.4      0.441
## 3      0.6      0.618
## 4      0.8      0.829
```

7.



8.

```
## # A tibble: 320 x 7
##   tank_id fish_id perc_soy_protein day_30_weight avg_tank_temp day_30~1 tank~2
##   <dbl>   <dbl>          <dbl>          <dbl>          <dbl>    <dbl> <chr>
## 1     1     1      0.2          142.          77.2      0.142  1
```

```
## 1      1      1      0.2      334.      77.2  0.334  warm
## 2      1      2      0.2      198.      77.2  0.198  warm
## 3      1      3      0.2      315.      77.2  0.315  warm
## 4      1      4      0.2      316.      77.2  0.316  warm
## 5      1      5      0.2       89.4      77.2  0.0894 warm
## 6      1      6      0.2       74.7      77.2  0.0747 warm
## 7      1      7      0.2      142.      77.2  0.142  warm
## 8      1      8      0.2       20.8      77.2  0.0208 warm
## 9      1      9      0.2       57.3      77.2  0.0573 warm
## 10     1     10      0.2      159.      77.2  0.159  warm
## # ... with 310 more rows, and abbreviated variable names 1: day_30_weight_kg,
## # 2: tank_category
## # i Use 'print(n = ...)' to see more rows
```

9.

```
## 'summarise()' has grouped output by 'perc_soy_protein'. You can override using
## the '.groups' argument.
```

```
## # A tibble: 8 x 3
##   perc_soy_protein tank_category mean_weight_kg
##   <dbl> <chr>           <dbl>
## 1      0.2 cold           0.279
## 2      0.2 warm           0.272
## 3      0.4 cold           0.420
## 4      0.4 warm           0.448
## 5      0.6 cold           0.617
## 6      0.6 warm           0.620
## 7      0.8 cold           0.824
## 8      0.8 warm           0.833
```

10.

