## **Water Treatment Plant**

This data set was pulled from <u>UCI</u>. It also contains the following information for each sample:

```
0 Date
           (date of sample)
1 Q-E
          (input flow to plant)
2 ZN-E
            (input Zinc to plant)
3 PH-E
            (input pH to plant)
4 DBO-E
             (input Biological demand of oxygen to plant)
             (input chemical demand of oxygen to plant)
5 DOO-E
6 SS-E
           (input suspended solids to plant)
7 SSV-E
            (input volatile supended solids to plant)
8 SED-E
             (input sediments to plant)
9 COND-E
              (input conductivity to plant)
10 PH-P
            (input pH to primary settler)
11 DBO-P
             (input Biological demand of oxygen to primary settler)
12 SS-P
            (input suspended solids to primary settler)
13 SSV-P
             (input volatile supended solids to primary settler)
14 SED-P
             (input sediments to primary settler)
15 COND-P
               (input conductivity to primary settler)
16 PH-D
             (input pH to secondary settler)
17 DBO-D
              (input Biological demand of oxygen to secondary settler)
18 DOO-D
              (input chemical demand of oxygen to secondary settler)
19 SS-D
            (input suspended solids to secondary settler)
20 SSV-D
             (input volatile supended solids to secondary settler)
21 SED-D
              (input sediments to secondary settler)
22 COND-D
               (input conductivity to secondary settler)
23 PH-S
            (output pH)
24 DBO-S
              (output Biological demand of oxygen)
25 DQO-S
              (output chemical demand of oxygen)
26 SS-S
            (output suspended solids)
27 SSV-S
             (output volatile supended solids)
28 SED-S
             (output sediments)
29 COND-S
               (output conductivity)
30 RD-DBO-P (performance input Biological demand of oxygen in primary settler)
31 RD-SS-P (performance input suspended solids to primary settler)
32 RD-SED-P (performance input sediments to primary settler)
33 RD-DBO-S (performance input Biological demand of oxygen to secondary settler)
34 RD-DQO-S (performance input chemical demand of oxygen to secondary settler)
35 RD-DBO-G (global performance input Biological demand of oxygen)
36 RD-DQO-G (global performance input chemical demand of oxygen)
37 RD-SS-G (global performance input suspended solids)
38 RD-SED-G (global performance input sediments)
```

This dataset is good for clustering.

You can use the following code to load the data into google colaboratory: