```
1 11.05.2000 0.044
                                                              352.0 0.090
                        3.00
                                    51.6 14.61
                                                17.75 0.034
                                                                            1792.0
2
   1 11.09.2000 0.032
                        2.10
                                    24.5
                                           9.87
                                                13.80
                                                      0.173 416.0 0.200
    1 13.12.2000
                 0.170
                         2.23
                                    35.6 12.40
                                                17.13
                                                       0.099
                                                              275.2 0.377
                                                                            1264.0
   1 02.03.2001 0.000 3.03
                                    48.8 14.69 10.00 0.065
                                                              281.6 0.134
                                                                            1462.0
PS C:\Users\Krisha\Desktop\New folder\Water_Quality_Prediction> |
   id
             date
                    NH4 BSK5 Suspended
                                             02
                                                   NO3
                                                          NO<sub>2</sub>
                                                                 SO4
                                                                        P04
                                                                                 CL
    1
      17.02.2000
                  0.330 2.77
                                                  9.50
                                                        0.057
                                                               154.0
                                                                      0.454
                                                                              289.5
                                    12.0 12.30
   1 11.05.2000 0.044 3.00
                                    51.6 14.61 17.75 0.034
                                                               352.0
                                                                      0.090 1792.0
   1 11.09.2000
                  0.032 2.10
                                    24.5
                                           9.87
                                                 13.80
                                                        0.173
                                                               416.0
                                                                      0.200
                                                                             2509.0
   1 13.12.2000 0.170 2.23
                                    35.6 12.40
                                                17.13 0.099
                                                               275.2
                                                                      0.377
3
                                                                             1264.0
    1 02.03.2001 0.000 3.03
                                    48.8 14.69 10.00 0.065 281.6 0.134 1462.0
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2861 entries, 0 to 2860
Data columns (total 11 columns):
     Column
               Non-Null Count Dtype
    -----
                               ____
 0
     id
               2861 non-null
                               int64
 1
               2861 non-null object
     date
 2
     NH4
               2858 non-null
                              float64
 3
     BSK5
               2860 non-null
                              float64
     Suspended 2845 non-null
                               float64
 5
               2858 non-null
                              float64
    02
 6
     NO3
               2860 non-null
                              float64
     NO<sub>2</sub>
               2858 non-null
                              float64
 8
     S04
               2812 non-null
                               float64
 9
     P04
               2833 non-null
                               float64
               2812 non-null
dtypes: float64(9), int64(1), object(1)
memory usage: 246.0+ KB
PS C:\Users\Krisha\Desktop\New folder\Water_Quality_Prediction>
```

id

0

date

1 17.02.2000 0.330

NH4

2.77

BSK5 Suspended

NO3

9.50 0.057

02

12.0 12.30

NO₂

S04

154.0

P04

0.454

CL

289.5

(2861, 11)
PS C:\Users\Krisha\Desktop\New folder\Water_Quality Prediction>

	count	mean	std	min	25%	50%	75%	max
id	2861.0	12.397064	6.084226	1.00	8.0000	14.000	16.00000	22.000
NH4	2858.0	0.758734	2.486247	0.00	0.0800	0.220	0.50000	39.427
BSK5	2860.0	4.316182	2.973997	0.00	2.1600	3.800	5.80000	50.900
Suspended	2845.0	12.931905	16.543097	0.00	6.0000	10.000	15.00000	595.000
02	2858.0	9.508902	4.428260	0.00	7.0925	8.995	11.52000	90.000
NO3	2860.0	4.316846	6.881188	0.00	1.3900	2.800	5.58250	133.400
NO2	2858.0	0.246128	2.182777	0.00	0.0300	0.059	0.12575	109.000
S04	2812.0	59.362313	96.582641	0.00	27.0525	37.800	64.64000	3573.400
P04	2833.0	0.418626	0.771326	0.00	0.1300	0.270	0.47000	13.879
CL	2812.0	93.731991	394.512184	0.02	26.8000	33.900	_45.60750	5615.280
PS C:\Users\Krisha\Desktop\New folder\Water_Quality_Prediction>								

```
date
               0
NH4
               3
BSK5
               1
Suspended
              16
02
               3
NO3
               1
NO<sub>2</sub>
               3
S04
              49
P04
              28
CL
              49
dtype: int64
PS C:\Users\Krisha\Desktop\New folder\Water_Quality_Prediction>
                                                       S04
                                                             P04
   id
                 NH4
                     BSK5 Suspended
                                      02
                                           NO3
                                                 NO2
          date
                                                                     CL
                                                                  289.5
   1 2000-02-17 0.330
                     2.77
                              12.0 12.30
                                          9.50 0.057
                                                     154.0 0.454
   1 2000-05-11 0.044 3.00
                              51.6 14.61 17.75 0.034
                                                     352.0 0.090
                                                                 1792.0
   1 2000-09-11 0.032 2.10
                              24.5
                                    9.87
                                         13.80 0.173
                                                     416.0 0.200
                                         17.13 0.099
   1 2000-12-13 0.170
                     2.23
                              35.6 12.40
                                                     275.2 0.377
                                                                 1264.0
   1 2001-03-02 0.000 3.03
                              48.8 14.69 10.00 0.065 281.6 0.134 1462.0
Data columns (total 11 columns):
     Column
                 Non-Null Count
                                   Dtype
     id
                 2861 non-null
                                   int64
 0
                                  datetime64[ns]
 1
     date
                 2861 non-null
 2
     NH4
                 2858 non-null
                                  float64
                 2860 non-null
 3
     BSK5
                                  float64
 4
     Suspended 2845 non-null
                                  float64
 5
                 2858 non-null
     02
                                  float64
 6
     NO3
                 2860 non-null
                                  float64
                 2858 non-null
                                  float64
 7
     NO<sub>2</sub>
 8
     S04
                 2812 non-null
                                  float64
 9
     P04
                 2833 non-null
                                  float64
                 2812 non-null
                                  float64
 10
     CL
dtypes: datetime64[ns](1), float64(9), int64(1)
memory usage: 246.0 KB
PS C:\Users\Krisha\Desktop\New folder\Water_Quality_Prediction>
```

id

0

```
id
           date
                   NH4 BSK5 Suspended
                                           02
                                                 NO3
                                                        NO2
                                                               S04
                                                                      P04
                                                                               CL
0 1 2000-02-17 0.330
                                                9.50 0.057
                                                            154.0 0.454
                       2.77
                                   12.0 12.30
                                                                            289.5
1 1 2000-05-11 0.044 3.00
                                   51.6 14.61 17.75 0.034 352.0 0.090 1792.0
   1 2000-09-11 0.032 2.10
                                   24.5
                                         9.87
                                               13.80 0.173 416.0 0.200
                                                                           2509.0
  1 2000-12-13 0.170 2.23
                                   35.6 12.40 17.13 0.099 275.2 0.377 1264.0
   1 2001-03-02 0.000 3.03
                                   48.8 14.69 10.00 0.065
                                                             281.6 0.134
                                                                          1462.0
PS C:\Users\Krisha\Desktop\New folder\Water_Quality_Prediction>
                                                       S04
                 NH4 BSK5 Suspended
                                      02 NO3 NO2
                                                                     CL year
  1 2000-02-17 0.330 2.77
                               12.0 12.30
                                         9.50 0.057 154.0 0.454
                                                                  289.5 2000
                                                                                 2
   1 2000-05-11 0.044 3.00
                               51.6 14.61 17.75 0.034 352.0 0.090
                                                                                 5
                                                                1792.0
                                                                        2000
   1 2000-09-11 0.032 2.10
                               24.5
                                    9.87 13.80 0.173 416.0 0.200 2509.0
                                                                                 9
2
  1 2000-12-13 0.170 2.23
                               35.6 12.40 17.13 0.099 275.2 0.377 1264.0
                                                                        2000
                                                                                12
                               48.8 14.69 10.00 0.065 281.6 0.134 1462.0 2001
4 1 2001-03-02 0.000 3.03
PS C:\Users\Krisha\Desktop\New folder\Water_Quality_Prediction> |
Index(['id', 'date', 'NH4', 'BSK5', 'Suspended', '02', 'NO3', 'NO2', 'SO4',
       'PO4<sup>'</sup>, 'CL', 'year', 'month'],
      dtype='object')
PS C:\Users\Krisha\Desktop\New folder\Water_Quality_Prediction>
```