

```
In [1]: import pandas as pd
```

```
In [3]: data = pd.read_csv('C:\\Users\\UP\\Downloads\\1. Weather Data.csv')
```

```
In [4]: data
```

```
Out[4]:
```

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
0	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
1	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
2	1/1/2012 2:00	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog
3	1/1/2012 3:00	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
4	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog
...	...	...	...	...	...	...	...	...
8779	12/31/2012 19:00	0.1	-2.7	81	30	9.7	100.13	Snow
8780	12/31/2012 20:00	0.2	-2.4	83	24	9.7	100.03	Snow
8781	12/31/2012 21:00	-0.5	-1.5	93	28	4.8	99.95	Snow
8782	12/31/2012 22:00	-0.2	-1.8	89	28	9.7	99.91	Snow
8783	12/31/2012 23:00	0.0	-2.1	86	30	11.3	99.89	Snow

8784 rows × 8 columns

```
In [6]: data.head()
```

```
Out[6]:
```

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
0	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
1	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
2	1/1/2012 2:00	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
<b>3</b>	1/1/2012 3:00	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
<b>4</b>	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog

```
In [7]: data.index
```

```
Out[7]: RangeIndex(start=0, stop=8784, step=1)
```

```
In [8]: data.columns
```

```
Out[8]: Index(['Date/Time', 'Temp_C', 'Dew Point Temp_C', 'Rel Hum_%',  
              'Wind Speed_km/h', 'Visibility_km', 'Press_kPa', 'Weather'],  
              dtype='object')
```

```
In [9]: data.dtypes
```

```
Out[9]: Date/Time      object  
Temp_C              float64  
Dew Point Temp_C    float64  
Rel Hum_%           int64  
Wind Speed_km/h     int64  
Visibility_km       float64  
Press_kPa           float64  
Weather             object  
dtype: object
```

```
In [12]: data['Weather'].unique()
```

```
Out[12]: array(['Fog', 'Freezing Drizzle,Fog', 'Mostly Cloudy', 'Cloudy', 'Rain',  
               'Rain Showers', 'Mainly Clear', 'Snow Showers', 'Snow', 'Clear',  
               'Freezing Rain,Fog', 'Freezing Rain', 'Freezing Drizzle',  
               'Rain,Snow', 'Moderate Snow', 'Freezing Drizzle,Snow',  
               'Freezing Rain,Snow Grains', 'Snow,Blowing Snow', 'Freezing Fog',  
               'Haze', 'Rain,Fog', 'Drizzle,Fog', 'Drizzle',  
               'Freezing Drizzle,Haze', 'Freezing Rain,Haze', 'Snow,Haze',  
               'Snow,Fog', 'Snow,Ice Pellets', 'Rain,Haze', 'Thunderstorms,Rain',  
               'Thunderstorms,Rain Showers', 'Thunderstorms,Heavy Rain Showers',  
               'Thunderstorms,Rain Showers,Fog', 'Thunderstorms',  
               'Thunderstorms,Rain,Fog',  
               'Thunderstorms,Moderate Rain Showers,Fog', 'Rain Showers,Fog',  
               'Rain Showers,Snow Showers', 'Snow Pellets', 'Rain,Snow,Fog',  
               'Moderate Rain,Fog', 'Freezing Rain,Ice Pellets,Fog',  
               'Drizzle,Ice Pellets,Fog', 'Drizzle,Snow', 'Rain,Ice Pellets',  
               'Drizzle,Snow,Fog', 'Rain,Snow Grains', 'Rain,Snow,Ice Pellets',  
               'Snow Showers,Fog', 'Moderate Snow,Blowing Snow'], dtype=object)
```

```
In [16]: data.nunique()
```

```
Out[16]: Date/Time      8784  
Temp_C              533  
Dew Point Temp_C    489
```

```
Rel_Hum_%      83
Wind_Speed_km/h 34
Visibility_km    24
Press_kPa       518
Weather         50
dtype: int64
```

```
In [17]: data.count()
```

```
Out[17]: Date/Time      8784
Temp_C              8784
Dew Point Temp_C    8784
Rel_Hum_%           8784
Wind_Speed_km/h     8784
Visibility_km        8784
Press_kPa           8784
Weather             8784
dtype: int64
```

```
In [19]: data['Weather'].value_counts()
```

```
Out[19]: Mainly Clear      2106
Mostly Cloudy      2069
Cloudy             1728
Clear              1326
Snow               390
Rain               306
Rain Showers       188
Fog                150
Rain,Fog           116
Drizzle,Fog        80
Snow Showers       60
Drizzle            41
Snow,Fog           37
Snow,Blowing Snow  19
Rain,Snow          18
Haze               16
Thunderstorms,Rain Showers 16
Drizzle,Snow,Fog   15
Freezing Rain      14
Freezing Drizzle   11
Snow,Ice Pellets   6
Freezing Drizzle,Fog 6
Snow,Haze          5
Freezing Rain,Fog  4
Snow Showers,Fog   4
Freezing Fog       4
Rain,Snow,Ice Pellets 4
Moderate Snow      4
Thunderstorms,Rain 3
Rain,Haze          3
Freezing Drizzle,Haze 3
Thunderstorms,Rain Showers,Fog 3
Moderate Snow,Blowing Snow 2
Freezing Rain,Haze 2
Drizzle,Snow       2
Thunderstorms      2
Rain Showers,Snow Showers 2
Thunderstorms,Moderate Rain Showers,Fog 1
Thunderstorms,Rain,Fog 1
Freezing Rain,Ice Pellets,Fog 1
```

Rain,Ice Pellets	1
Moderate Rain,Fog	1
Freezing Rain,Snow Grains	1
Rain,Snow Grains	1
Thunderstorms,Heavy Rain Showers	1
Rain Showers,Fog	1
Rain,Snow,Fog	1
Drizzle,Ice Pellets,Fog	1
Snow Pellets	1

Name: Weather, dtype: int64

In [20]: `data.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8784 entries, 0 to 8783
Data columns (total 8 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Date/Time              8784 non-null   object
1   Temp_C                 8784 non-null   float64
2   Dew Point Temp_C       8784 non-null   float64
3   Rel Hum_%              8784 non-null   int64
4   Wind Speed_km/h        8784 non-null   int64
5   Visibility_km          8784 non-null   float64
6   Press_kPa              8784 non-null   float64
7   Weather                8784 non-null   object
dtypes: float64(4), int64(2), object(2)
memory usage: 549.1+ KB
```

In [22]: `data['Wind Speed_km/h'].unique()`

Out[22]: `array([ 4, 7, 6, 9, 15, 13, 20, 22, 19, 24, 30, 35, 39, 32, 33, 26, 44, 43, 48, 37, 28, 17, 11, 0, 83, 70, 57, 46, 41, 52, 50, 63, 54, 2], dtype=int64)`

In [27]: `data.Weather.value_counts()`

Mainly Clear	2106
Mostly Cloudy	2069
Cloudy	1728
Clear	1326
Snow	390
Rain	306
Rain Showers	188
Fog	150
Rain,Fog	116
Drizzle,Fog	80
Snow Showers	60
Drizzle	41
Snow,Fog	37
Snow,Blowing Snow	19
Rain,Snow	18
Haze	16
Thunderstorms,Rain Showers	16
Drizzle,Snow,Fog	15
Freezing Rain	14
Freezing Drizzle,Snow	11
Freezing Drizzle	7
Snow,Ice Pellets	6
Freezing Drizzle,Fog	6
Snow,Haze	5

```

Freezing Rain,Fog 4
Snow Showers,Fog 4
Freezing Fog 4
Rain,Snow,Ice Pellets 4
Moderate Snow 4
Thunderstorms,Rain 3
Rain,Haze 3
Freezing Drizzle,Haze 3
Thunderstorms,Rain Showers,Fog 3
Moderate Snow,Blowing Snow 2
Freezing Rain,Haze 2
Drizzle,Snow 2
Thunderstorms 2
Rain Showers,Snow Showers 2
Thunderstorms,Moderate Rain Showers,Fog 1
Thunderstorms,Rain,Fog 1
Freezing Rain,Ice Pellets,Fog 1
Rain,Ice Pellets 1
Moderate Rain,Fog 1
Freezing Rain,Snow Grains 1
Rain,Snow Grains 1
Thunderstorms,Heavy Rain Showers 1
Rain Showers,Fog 1
Rain,Snow,Fog 1
Drizzle,Ice Pellets,Fog 1
Snow Pellets 1
Name: Weather, dtype: int64

```

In [29]:

```
data[data.Weather == 'Clear']
```

Out[29]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
<b>67</b>	1/3/2012 19:00	-16.9	-24.8	50	24	25.0	101.74	Clear
<b>114</b>	1/5/2012 18:00	-7.1	-14.4	56	11	25.0	100.71	Clear
<b>115</b>	1/5/2012 19:00	-9.2	-15.4	61	7	25.0	100.80	Clear
<b>116</b>	1/5/2012 20:00	-9.8	-15.7	62	9	25.0	100.83	Clear
<b>117</b>	1/5/2012 21:00	-9.0	-14.8	63	13	25.0	100.83	Clear
...	...	...	...	...	...	...	...	...
<b>8646</b>	12/26/2012 6:00	-13.4	-14.8	89	4	25.0	102.47	Clear
<b>8698</b>	12/28/2012 10:00	-6.1	-8.6	82	19	24.1	101.27	Clear
<b>8713</b>	12/29/2012 1:00	-11.9	-13.6	87	11	25.0	101.31	Clear
<b>8714</b>	12/29/2012 2:00	-11.8	-13.1	90	13	25.0	101.33	Clear
<b>8756</b>	12/30/2012 20:00	-13.8	-16.5	80	24	25.0	101.52	Clear

1326 rows × 8 columns

```
In [31]: data.groupby('Weather').get_group('Clear')
```

```
Out[31]:
```

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
<b>67</b>	1/3/2012 19:00	-16.9	-24.8	50	24	25.0	101.74	Clear
<b>114</b>	1/5/2012 18:00	-7.1	-14.4	56	11	25.0	100.71	Clear
<b>115</b>	1/5/2012 19:00	-9.2	-15.4	61	7	25.0	100.80	Clear
<b>116</b>	1/5/2012 20:00	-9.8	-15.7	62	9	25.0	100.83	Clear
<b>117</b>	1/5/2012 21:00	-9.0	-14.8	63	13	25.0	100.83	Clear
...	...	...	...	...	...	...	...	...
<b>8646</b>	12/26/2012 6:00	-13.4	-14.8	89	4	25.0	102.47	Clear
<b>8698</b>	12/28/2012 10:00	-6.1	-8.6	82	19	24.1	101.27	Clear
<b>8713</b>	12/29/2012 1:00	-11.9	-13.6	87	11	25.0	101.31	Clear
<b>8714</b>	12/29/2012 2:00	-11.8	-13.1	90	13	25.0	101.33	Clear
<b>8756</b>	12/30/2012 20:00	-13.8	-16.5	80	24	25.0	101.52	Clear

1326 rows × 8 columns

```
In [42]: data[data['Wind Speed_km/h'] == 4]
```

```
Out[42]:
```

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
<b>0</b>	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
<b>1</b>	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
<b>96</b>	1/5/2012 0:00	-8.8	-11.7	79	4	9.7	100.32	Snow
<b>101</b>	1/5/2012 5:00	-7.0	-9.5	82	4	4.0	100.19	Snow

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
<b>146</b>	1/7/2012 2:00	-8.1	-11.1	79	4	19.3	100.15	Cloudy
...	...	...	...	...	...	...	...	...
<b>8768</b>	12/31/2012 8:00	-8.6	-10.3	87	4	3.2	101.14	Snow Showers
<b>8769</b>	12/31/2012 9:00	-8.1	-9.6	89	4	2.4	101.09	Snow
<b>8770</b>	12/31/2012 10:00	-7.4	-8.9	89	4	6.4	101.05	Snow,Fog
<b>8772</b>	12/31/2012 12:00	-5.8	-7.5	88	4	12.9	100.78	Snow
<b>8773</b>	12/31/2012 13:00	-4.6	-6.6	86	4	12.9	100.63	Snow

474 rows × 8 columns

In [45]: `data.isnull().sum()`

Out[45]:

Date/Time	0
Temp_C	0
Dew Point Temp_C	0
Rel Hum_%	0
Wind Speed_km/h	0
Visibility_km	0
Press_kPa	0
Weather	0

dtype: int64

In [48]: `data.notnull().sum()`

Out[48]:

Date/Time	8784
Temp_C	8784
Dew Point Temp_C	8784
Rel Hum_%	8784
Wind Speed_km/h	8784
Visibility_km	8784
Press_kPa	8784
Weather	8784

dtype: int64

In [51]: `data.rename(columns = {'Weather' : 'Weather Condition'}, inplace = True)`

In [52]: `data`

Out[52]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
--	-----------	--------	---------------------	--------------	--------------------	---------------	-----------	----------------------

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
<b>0</b>	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
<b>1</b>	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
<b>2</b>	1/1/2012 2:00	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog
<b>3</b>	1/1/2012 3:00	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
<b>4</b>	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog
...	...	...	...	...	...	...	...	...
<b>8779</b>	12/31/2012 19:00	0.1	-2.7	81	30	9.7	100.13	Snow
<b>8780</b>	12/31/2012 20:00	0.2	-2.4	83	24	9.7	100.03	Snow
<b>8781</b>	12/31/2012 21:00	-0.5	-1.5	93	28	4.8	99.95	Snow
<b>8782</b>	12/31/2012 22:00	-0.2	-1.8	89	28	9.7	99.91	Snow
<b>8783</b>	12/31/2012 23:00	0.0	-2.1	86	30	11.3	99.89	Snow

8784 rows × 8 columns

```
In [53]: data.Visibility_km.mean()
```

```
Out[53]: 27.664444672131151
```

```
In [54]: data.Press_kPa.std()
```

```
Out[54]: 0.8440047459486474
```

```
In [56]: data['Rel Hum_%'].var()
```

```
Out[56]: 286.2485501984998
```

```
In [57]: data['Weather Condition'].value_counts()
```

```
Out[57]: Mainly Clear          2106
Mostly Cloudy          2069
Cloudy                1728
Clear                 1326
Snow                  390
```



```

Rain 306
Rain Showers 188
Fog 150
Rain,Fog 116
Drizzle,Fog 80
Snow Showers 60
Drizzle 41
Snow,Fog 37
Snow,Blowing Snow 19
Rain,Snow 18
Haze 16
Thunderstorms,Rain Showers 16
Drizzle,Snow,Fog 15
Freezing Rain 14
Freezing Drizzle,Snow 11
Freezing Drizzle 7
Snow,Ice Pellets 6
Freezing Drizzle,Fog 6
Snow,Haze 5
Freezing Rain,Fog 4
Snow Showers,Fog 4
Freezing Fog 4
Rain,Snow,Ice Pellets 4
Moderate Snow 4
Thunderstorms,Rain 3
Rain,Haze 3
Freezing Drizzle,Haze 3
Thunderstorms,Rain Showers,Fog 3
Moderate Snow,Blowing Snow 2
Freezing Rain,Haze 2
Drizzle,Snow 2
Thunderstorms 2
Rain Showers,Snow Showers 2
Thunderstorms,Moderate Rain Showers,Fog 1
Thunderstorms,Rain,Fog 1
Freezing Rain,Ice Pellets,Fog 1
Rain,Ice Pellets 1
Moderate Rain,Fog 1
Freezing Rain,Snow Grains 1
Rain,Snow Grains 1
Thunderstorms,Heavy Rain Showers 1
Rain Showers,Fog 1
Rain,Snow,Fog 1
Drizzle,Ice Pellets,Fog 1
Snow Pellets 1
Name: Weather Condition, dtype: int64

```

```
In [61]: data[data['Weather Condition'] == 'Fog' ]
```

```
Out[61]:
```

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
0	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
1	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
4	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog
5	1/1/2012 5:00	-1.4	-3.3	87	9	6.4	101.27	Fog

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
<b>6</b>	1/1/2012 6:00	-1.5	-3.1	89	7	6.4	101.29	Fog
...	...	...	...	...	...	...	...	...
<b>8716</b>	12/29/2012 4:00	-16.0	-17.2	90	6	9.7	101.25	Fog
<b>8717</b>	12/29/2012 5:00	-14.8	-15.9	91	4	6.4	101.25	Fog
<b>8718</b>	12/29/2012 6:00	-13.8	-15.3	88	4	9.7	101.25	Fog
<b>8719</b>	12/29/2012 7:00	-14.8	-16.4	88	7	8.0	101.22	Fog
<b>8722</b>	12/29/2012 10:00	-12.0	-13.3	90	7	6.4	101.15	Fog

150 rows × 8 columns

In [63]: `data[data['Weather Condition'].str.contains('Snow')]`

Out[63]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
<b>41</b>	1/2/2012 17:00	-2.1	-9.5	57	22	25.0	99.66	Snow Showers
<b>44</b>	1/2/2012 20:00	-5.6	-13.4	54	24	25.0	100.07	Snow Showers
<b>45</b>	1/2/2012 21:00	-5.8	-12.8	58	26	25.0	100.15	Snow Showers
<b>47</b>	1/2/2012 23:00	-7.4	-14.1	59	17	19.3	100.27	Snow Showers
<b>48</b>	1/3/2012 0:00	-9.0	-16.0	57	28	25.0	100.35	Snow Showers
...	...	...	...	...	...	...	...	...
<b>8779</b>	12/31/2012 19:00	0.1	-2.7	81	30	9.7	100.13	Snow
<b>8780</b>	12/31/2012 20:00	0.2	-2.4	83	24	9.7	100.03	Snow
<b>8781</b>	12/31/2012 21:00	-0.5	-1.5	93	28	4.8	99.95	Snow
<b>8782</b>	12/31/2012 22:00	-0.2	-1.8	89	28	9.7	99.91	Snow
<b>8783</b>	12/31/2012 23:00	0.0	-2.1	86	30	11.3	99.89	Snow

583 rows × 8 columns

In [73]:

```
data[(data['Wind Speed_km/h'] > 24) & (data['Visibility_km'] == 25)]
```

Out[73]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
<b>23</b>	1/1/2012 23:00	5.3	2.0	79	30	25.0	99.31	Cloudy
<b>24</b>	1/2/2012 0:00	5.2	1.5	77	35	25.0	99.26	Rain Showers
<b>25</b>	1/2/2012 1:00	4.6	0.0	72	39	25.0	99.26	Cloudy
<b>26</b>	1/2/2012 2:00	3.9	-0.9	71	32	25.0	99.26	Mostly Cloudy
<b>27</b>	1/2/2012 3:00	3.7	-1.5	69	33	25.0	99.30	Mostly Cloudy
...	...	...	...	...	...	...	...	...
<b>8705</b>	12/28/2012 17:00	-8.6	-12.0	76	26	25.0	101.34	Mainly Clear
<b>8753</b>	12/30/2012 17:00	-12.1	-15.8	74	28	25.0	101.26	Mainly Clear
<b>8755</b>	12/30/2012 19:00	-13.4	-16.5	77	26	25.0	101.47	Mainly Clear
<b>8759</b>	12/30/2012 23:00	-12.1	-15.1	78	28	25.0	101.52	Mostly Cloudy
<b>8760</b>	12/31/2012 0:00	-11.1	-14.4	77	26	25.0	101.51	Cloudy

308 rows × 8 columns

In [77]:

```
data.groupby('Weather Condition').mean()
```

Out[77]:

	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
<b>Weather Condition</b>						
<b>Clear</b>	6.825716	0.089367	64.497738	10.557315	30.153243	101.587443
<b>Cloudy</b>	7.970544	2.375810	69.592593	16.127315	26.625752	100.911441
<b>Drizzle</b>	7.353659	5.504878	88.243902	16.097561	17.931707	100.435366
<b>Drizzle,Fog</b>	8.067500	7.033750	93.275000	11.862500	5.257500	100.786625
<b>Drizzle,Ice Pellets,Fog</b>	0.400000	-0.700000	92.000000	20.000000	4.000000	100.790000
<b>Drizzle,Snow</b>	1.050000	0.150000	93.500000	14.000000	10.500000	100.890000

	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather Condition						
Drizzle,Snow,Fog	0.693333	0.120000	95.866667	15.533333	5.513333	99.281333
Fog	4.303333	3.159333	92.286667	7.946667	6.248000	101.184067
Freezing Drizzle	-5.657143	-8.000000	83.571429	16.571429	9.200000	100.202857
Freezing Drizzle,Fog	-2.533333	-4.183333	88.500000	17.000000	5.266667	100.441667
Freezing Drizzle,Haze	-5.433333	-8.000000	82.000000	10.333333	2.666667	100.316667
Freezing Drizzle,Snow	-5.109091	-7.072727	86.090909	16.272727	5.872727	100.520909
Freezing Fog	-7.575000	-9.250000	87.750000	4.750000	0.650000	102.320000
Freezing Rain	-3.885714	-6.078571	84.642857	19.214286	8.242857	99.647143
Freezing Rain,Fog	-2.225000	-3.750000	89.500000	15.500000	7.550000	99.945000
Freezing Rain,Haze	-4.900000	-7.450000	82.500000	7.500000	2.400000	100.375000
Freezing Rain,Ice Pellets,Fog	-2.600000	-3.700000	92.000000	28.000000	8.000000	100.950000
Freezing Rain,Snow Grains	-5.000000	-7.300000	84.000000	32.000000	4.800000	98.560000
Haze	-0.200000	-2.975000	81.625000	10.437500	7.831250	101.482500
Mainly Clear	12.558927	4.581671	60.667142	14.144824	34.264862	101.248832
Moderate Rain,Fog	1.700000	0.800000	94.000000	17.000000	6.400000	99.980000
Moderate Snow	-5.525000	-7.250000	87.750000	33.750000	0.750000	100.275000
Moderate Snow,Blowing Snow	-5.450000	-6.500000	92.500000	40.000000	0.600000	100.570000
Mostly Cloudy	10.574287	3.131174	62.102465	15.813920	31.253842	101.025288
Rain	9.786275	7.042810	83.624183	19.254902	18.856536	100.233333
Rain Showers	13.722340	9.187766	75.159574	17.132979	22.816489	100.404043
Rain Showers,Fog	12.800000	12.100000	96.000000	13.000000	6.400000	99.830000
Rain Showers,Snow Showers	2.150000	-1.500000	76.500000	22.500000	21.700000	101.100000
Rain,Fog	8.273276	7.219828	93.189655	14.793103	6.873276	100.500862
Rain,Haze	4.633333	2.066667	83.333333	11.666667	6.700000	100.540000
Rain,Ice Pellets	0.600000	-0.600000	92.000000	24.000000	9.700000	100.120000
Rain,Snow	1.055556	-0.566667	89.000000	28.388889	11.672222	99.951111
Rain,Snow Grains	1.900000	-2.100000	75.000000	26.000000	25.000000	100.600000
Rain,Snow,Fog	0.800000	0.300000	96.000000	9.000000	6.400000	100.730000
Rain,Snow,Ice Pellets	1.100000	-0.175000	91.500000	23.250000	6.000000	100.105000
Snow	-4.524103	-7.623333	79.307692	20.038462	11.171795	100.536103

	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather Condition						
Snow Pellets	0.700000	-6.400000	59.000000	35.000000	2.400000	99.700000
Snow Showers	-3.506667	-7.866667	72.350000	19.233333	20.158333	100.963500
Snow Showers,Fog	-10.675000	-11.900000	90.750000	13.750000	7.025000	101.292500
Snow,Blowing Snow	-5.410526	-7.621053	84.473684	34.842105	4.105263	99.704737
Snow,Fog	-5.075676	-6.364865	90.675676	17.324324	4.537838	100.688649
Snow,Haze	-4.020000	-6.860000	80.600000	5.000000	4.640000	100.782000
Snow,Ice Pellets	-1.883333	-3.666667	87.666667	23.833333	7.416667	100.548333
Thunderstorms	24.150000	19.750000	77.000000	7.500000	24.550000	100.230000
Thunderstorms,Heavy Rain Showers	10.900000	9.000000	88.000000	9.000000	2.400000	100.260000
Thunderstorms,Moderate Rain Showers,Fog	19.600000	18.500000	93.000000	15.000000	3.200000	100.010000
Thunderstorms,Rain	20.433333	18.533333	89.000000	15.666667	19.833333	100.420000
Thunderstorms,Rain Showers	20.037500	17.618750	86.375000	18.312500	15.893750	100.233750
Thunderstorms,Rain Showers,Fog	21.600000	18.700000	84.000000	19.666667	9.700000	100.063333
Thunderstorms,Rain,Fog	20.600000	18.600000	88.000000	19.000000	4.800000	100.080000

In [80]: `data.groupby('Weather Condition').min()`

Out[80]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather Condition							
Clear	1/11/2012 1:00	-23.3	-28.5	20	0	11.3	99.52
Cloudy	1/1/2012 17:00	-21.4	-26.8	18	0	11.3	98.39
Drizzle	1/23/2012 21:00	1.1	-0.2	74	0	6.4	97.84
Drizzle,Fog	1/23/2012 20:00	0.0	-1.6	85	0	1.0	98.65
Drizzle,Ice Pellets,Fog	12/17/2012 9:00	0.4	-0.7	92	20	4.0	100.79
Drizzle,Snow	12/17/2012 15:00	0.9	0.1	92	9	9.7	100.63

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather Condition							
Drizzle,Snow,Fog	12/18/2012 21:00	0.3	-0.1	92	7	2.4	97.79
Fog	1/1/2012 0:00	-16.0	-17.2	80	0	0.2	98.31
Freezing Drizzle	1/13/2012 10:00	-9.0	-12.2	78	6	4.8	98.44
Freezing Drizzle,Fog	1/1/2012 2:00	-6.4	-9.0	82	6	3.6	98.74
Freezing Drizzle,Haze	2/1/2012 11:00	-5.8	-8.3	81	9	2.0	100.28
Freezing Drizzle,Snow	1/13/2012 3:00	-8.3	-10.4	79	6	2.4	99.19
Freezing Fog	1/22/2012 6:00	-19.0	-22.9	71	0	0.2	101.97
Freezing Rain	1/13/2012 11:00	-6.5	-9.0	81	7	2.8	98.22
Freezing Rain,Fog	1/17/2012 23:00	-6.1	-8.7	82	7	2.8	98.32
Freezing Rain,Haze	2/1/2012 14:00	-4.9	-7.5	82	6	2.0	100.34
Freezing Rain,Ice Pellets,Fog	12/17/2012 3:00	-2.6	-3.7	92	28	8.0	100.95
Freezing Rain,Snow Grains	1/13/2012 9:00	-5.0	-7.3	84	32	4.8	98.56
Haze	1/22/2012 12:00	-11.5	-16.0	68	0	4.8	100.35
Mainly Clear	1/10/2012 11:00	-22.8	-28.0	20	0	12.9	98.67
Moderate Rain,Fog	12/10/2012 8:00	1.7	0.8	94	17	6.4	99.98
Moderate Snow	1/12/2012 15:00	-6.3	-7.6	83	26	0.6	99.88
Moderate Snow,Blowing Snow	12/27/2012 10:00	-5.5	-6.6	92	39	0.6	100.50
Mostly Cloudy	1/1/2012 16:00	-23.2	-28.5	18	0	11.3	98.36
Rain	1/1/2012 18:00	0.3	-5.7	40	0	4.0	97.52
Rain Showers	1/1/2012 22:00	1.6	-7.2	37	0	6.4	98.51

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather Condition							
Rain Showers,Fog	10/20/2012 3:00	12.8	12.1	96	13	6.4	99.83
Rain Showers,Snow Showers	11/4/2012 8:00	2.1	-1.8	75	17	19.3	101.09
Rain,Fog	1/23/2012 18:00	0.0	-1.2	83	0	2.0	98.61
Rain,Haze	3/13/2012 7:00	4.0	1.0	81	7	4.0	100.50
Rain,Ice Pellets	12/18/2012 5:00	0.6	-0.6	92	24	9.7	100.12
Rain,Snow	1/10/2012 5:00	0.6	-1.7	81	13	2.4	98.18
Rain,Snow Grains	12/21/2012 0:00	1.9	-2.1	75	26	25.0	100.60
Rain,Snow,Fog	12/8/2012 21:00	0.8	0.3	96	9	6.4	100.73
Rain,Snow,Ice Pellets	12/21/2012 1:00	0.9	-0.7	88	17	4.8	99.85
Snow	1/10/2012 1:00	-16.7	-24.6	41	0	1.0	97.75
Snow Pellets	11/24/2012 15:00	0.7	-6.4	59	35	2.4	99.70
Snow Showers	1/12/2012 7:00	-13.3	-19.3	52	0	2.4	99.49
Snow Showers,Fog	12/26/2012 9:00	-11.3	-12.7	89	7	4.0	100.63
Snow,Blowing Snow	1/13/2012 21:00	-12.0	-16.2	70	24	0.6	98.11
Snow,Fog	12/16/2012 15:00	-10.1	-12.0	77	4	1.2	99.38
Snow,Haze	2/1/2012 17:00	-4.3	-7.2	80	0	4.0	100.61
Snow,Ice Pellets	12/10/2012 3:00	-4.3	-5.9	76	19	2.8	99.40
Thunderstorms	7/16/2012 1:00	21.6	19.4	67	0	24.1	99.84
Thunderstorms,Heavy Rain Showers	5/29/2012 6:00	10.9	9.0	88	9	2.4	100.26
Thunderstorms,Moderate Rain Showers,Fog	7/17/2012 6:00	19.6	18.5	93	15	3.2	100.01

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather Condition							
Thunderstorms,Rain	5/25/2012 20:00	19.4	18.2	83	4	16.1	100.19
Thunderstorms,Rain Showers	5/29/2012 16:00	11.0	7.0	68	7	6.4	99.65
Thunderstorms,Rain Showers,Fog	6/29/2012 3:00	19.5	16.1	80	7	9.7	99.71
Thunderstorms,Rain,Fog	7/17/2012 5:00	20.6	18.6	88	19	4.8	100.08

```
In [81]: data.groupby('Weather Condition').max()
```

Out[81]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather Condition							
Clear	9/9/2012 5:00	32.8	20.4	99	33	48.3	103.63
Cloudy	9/9/2012 23:00	30.5	22.6	99	54	48.3	103.65
Drizzle	9/30/2012 3:00	18.8	17.7	96	30	25.0	101.56
Drizzle,Fog	9/30/2012 2:00	19.9	19.1	100	28	9.7	102.07
Drizzle,Ice Pellets,Fog	12/17/2012 9:00	0.4	-0.7	92	20	4.0	100.79
Drizzle,Snow	12/19/2012 18:00	1.2	0.2	95	19	11.3	101.15
Drizzle,Snow,Fog	12/22/2012 3:00	1.1	0.6	98	32	9.7	100.15
Fog	9/22/2012 0:00	20.8	19.6	100	22	9.7	103.04
Freezing Drizzle	2/1/2012 5:00	-2.3	-3.3	93	26	12.9	101.02
Freezing Drizzle,Fog	12/10/2012 5:00	-0.3	-2.3	94	33	8.0	101.27
Freezing Drizzle,Haze	2/1/2012 13:00	-5.0	-7.7	83	11	4.0	100.36
Freezing Drizzle,Snow	3/2/2012 12:00	-3.3	-4.6	94	24	12.9	101.18



	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather Condition							
Freezing Fog	3/17/2012 6:00	-0.1	-0.3	99	9	0.8	102.85
Freezing Rain	2/1/2012 7:00	0.3	-1.7	92	28	16.1	101.00
Freezing Rain,Fog	12/17/2012 1:00	0.1	-0.9	93	26	9.7	101.01
Freezing Rain,Haze	2/1/2012 15:00	-4.9	-7.4	83	9	2.8	100.41
Freezing Rain,Ice Pellets,Fog	12/17/2012 3:00	-2.6	-3.7	92	28	8.0	100.95
Freezing Rain,Snow Grains	1/13/2012 9:00	-5.0	-7.3	84	32	4.8	98.56
Haze	3/13/2012 23:00	14.1	11.1	86	17	9.7	102.97
Mainly Clear	9/9/2012 9:00	33.0	21.2	99	63	48.3	103.59
Moderate Rain,Fog	12/10/2012 8:00	1.7	0.8	94	17	6.4	99.98
Moderate Snow	12/27/2012 9:00	-4.9	-6.7	93	39	0.8	100.67
Moderate Snow,Blowing Snow	12/27/2012 12:00	-5.4	-6.4	93	41	0.6	100.64
Mostly Cloudy	9/9/2012 2:00	32.4	24.4	100	83	48.3	103.65
Rain	9/5/2012 2:00	22.8	20.4	99	52	48.3	102.26
Rain Showers	9/8/2012 16:00	26.4	23.0	97	41	48.3	102.31
Rain Showers,Fog	10/20/2012 3:00	12.8	12.1	96	13	6.4	99.83
Rain Showers,Snow Showers	12/5/2012 10:00	2.2	-1.2	78	28	24.1	101.11
Rain,Fog	9/30/2012 23:00	21.7	19.5	100	46	9.7	101.77
Rain,Haze	3/13/2012 9:00	5.5	2.9	86	17	9.7	100.61
Rain,Ice Pellets	12/18/2012 5:00	0.6	-0.6	92	24	9.7	100.12
Rain,Snow	4/23/2012 3:00	1.7	0.5	94	52	25.0	101.07

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather Condition							
Rain,Snow Grains	12/21/2012 0:00	1.9	-2.1	75	26	25.0	100.60
Rain,Snow,Fog	12/8/2012 21:00	0.8	0.3	96	9	6.4	100.73
Rain,Snow,Ice Pellets	12/21/2012 5:00	1.3	0.1	94	28	6.4	100.47
Snow	4/27/2012 9:00	3.7	0.3	96	57	25.0	102.73
Snow Pellets	11/24/2012 15:00	0.7	-6.4	59	35	2.4	99.70
Snow Showers	3/4/2012 21:00	2.9	-0.7	94	37	48.3	102.50
Snow Showers,Fog	12/29/2012 13:00	-10.0	-11.1	92	22	9.7	102.52
Snow,Blowing Snow	2/25/2012 9:00	-1.4	-2.9	91	48	9.7	100.62
Snow,Fog	3/14/2012 19:00	1.1	0.8	99	35	9.7	102.07
Snow,Haze	2/1/2012 21:00	-3.6	-6.4	81	15	6.4	100.99
Snow,Ice Pellets	3/3/2012 4:00	0.8	-1.7	92	33	11.3	100.96
Thunderstorms	7/4/2012 16:00	26.7	20.1	87	15	25.0	100.62
Thunderstorms,Heavy Rain Showers	5/29/2012 6:00	10.9	9.0	88	9	2.4	100.26
Thunderstorms,Moderate Rain Showers,Fog	7/17/2012 6:00	19.6	18.5	93	15	3.2	100.01
Thunderstorms,Rain	7/23/2012 18:00	21.3	19.1	93	30	24.1	100.83
Thunderstorms,Rain Showers	9/8/2012 4:00	25.5	23.1	98	32	25.0	101.06
Thunderstorms,Rain Showers,Fog	7/31/2012 20:00	22.9	21.3	91	35	9.7	100.64
Thunderstorms,Rain,Fog	7/17/2012 5:00	20.6	18.6	88	19	4.8	100.08

In [83]: `data[data['Weather Condition'] == 'Fog']`

Out[83]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
<b>0</b>	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
<b>1</b>	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
<b>4</b>	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog
<b>5</b>	1/1/2012 5:00	-1.4	-3.3	87	9	6.4	101.27	Fog
<b>6</b>	1/1/2012 6:00	-1.5	-3.1	89	7	6.4	101.29	Fog
...	...	...	...	...	...	...	...	...
<b>8716</b>	12/29/2012 4:00	-16.0	-17.2	90	6	9.7	101.25	Fog
<b>8717</b>	12/29/2012 5:00	-14.8	-15.9	91	4	6.4	101.25	Fog
<b>8718</b>	12/29/2012 6:00	-13.8	-15.3	88	4	9.7	101.25	Fog
<b>8719</b>	12/29/2012 7:00	-14.8	-16.4	88	7	8.0	101.22	Fog
<b>8722</b>	12/29/2012 10:00	-12.0	-13.3	90	7	6.4	101.15	Fog

150 rows × 8 columns

In [84]: `data[data['Weather Condition'] == 'Clear']`

Out[84]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
<b>67</b>	1/3/2012 19:00	-16.9	-24.8	50	24	25.0	101.74	Clear
<b>114</b>	1/5/2012 18:00	-7.1	-14.4	56	11	25.0	100.71	Clear
<b>115</b>	1/5/2012 19:00	-9.2	-15.4	61	7	25.0	100.80	Clear
<b>116</b>	1/5/2012 20:00	-9.8	-15.7	62	9	25.0	100.83	Clear
<b>117</b>	1/5/2012 21:00	-9.0	-14.8	63	13	25.0	100.83	Clear
...	...	...	...	...	...	...	...	...
<b>8646</b>	12/26/2012 6:00	-13.4	-14.8	89	4	25.0	102.47	Clear

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
<b>8698</b>	12/28/2012 10:00	-6.1	-8.6	82	19	24.1	101.27	Clear
<b>8713</b>	12/29/2012 1:00	-11.9	-13.6	87	11	25.0	101.31	Clear
<b>8714</b>	12/29/2012 2:00	-11.8	-13.1	90	13	25.0	101.33	Clear
<b>8756</b>	12/30/2012 20:00	-13.8	-16.5	80	24	25.0	101.52	Clear

1326 rows × 8 columns

In [91]:

```
data[(data['Weather Condition'] == 'Clear') | (data['Visibility_km'] > 40)].head(50)
```

Out[91]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
<b>67</b>	1/3/2012 19:00	-16.9	-24.8	50	24	25.0	101.74	Clear
<b>106</b>	1/5/2012 10:00	-6.0	-10.0	73	17	48.3	100.45	Mainly Clear
<b>107</b>	1/5/2012 11:00	-5.6	-10.2	70	22	48.3	100.41	Mainly Clear
<b>108</b>	1/5/2012 12:00	-4.7	-9.6	69	20	48.3	100.38	Mainly Clear
<b>109</b>	1/5/2012 13:00	-4.4	-9.7	66	26	48.3	100.40	Mainly Clear
<b>110</b>	1/5/2012 14:00	-5.1	-10.7	65	22	48.3	100.46	Mainly Clear
<b>111</b>	1/5/2012 15:00	-4.3	-12.0	55	26	48.3	100.52	Mainly Clear
<b>114</b>	1/5/2012 18:00	-7.1	-14.4	56	11	25.0	100.71	Clear
<b>115</b>	1/5/2012 19:00	-9.2	-15.4	61	7	25.0	100.80	Clear
<b>116</b>	1/5/2012 20:00	-9.8	-15.7	62	9	25.0	100.83	Clear
<b>117</b>	1/5/2012 21:00	-9.0	-14.8	63	13	25.0	100.83	Clear
<b>183</b>	1/8/2012 15:00	-6.6	-12.9	61	20	48.3	102.04	Mostly Cloudy
<b>241</b>	1/11/2012 1:00	-10.7	-17.8	56	17	25.0	101.49	Clear

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
<b>242</b>	1/11/2012 2:00	-12.0	-18.9	56	19	25.0	101.57	Clear
<b>243</b>	1/11/2012 3:00	-12.7	-19.4	57	19	25.0	101.64	Clear
<b>244</b>	1/11/2012 4:00	-13.4	-20.1	57	17	25.0	101.66	Clear
<b>324</b>	1/14/2012 12:00	-17.5	-23.8	58	20	48.3	101.16	Mostly Cloudy
<b>325</b>	1/14/2012 13:00	-17.1	-24.1	55	17	48.3	101.18	Mainly Clear
<b>326</b>	1/14/2012 14:00	-16.7	-23.4	56	17	48.3	101.20	Mostly Cloudy
<b>327</b>	1/14/2012 15:00	-16.7	-23.4	56	22	48.3	101.24	Mostly Cloudy
<b>344</b>	1/15/2012 8:00	-23.3	-28.5	62	7	24.1	102.45	Clear
<b>345</b>	1/15/2012 9:00	-22.2	-27.8	60	9	48.3	102.57	Mainly Clear
<b>346</b>	1/15/2012 10:00	-20.6	-26.8	58	9	48.3	102.66	Mainly Clear
<b>347</b>	1/15/2012 11:00	-19.3	-26.1	55	9	48.3	102.68	Mainly Clear
<b>348</b>	1/15/2012 12:00	-18.0	-25.5	52	13	48.3	102.67	Mainly Clear
<b>349</b>	1/15/2012 13:00	-16.8	-24.2	53	20	48.3	102.65	Mainly Clear
<b>350</b>	1/15/2012 14:00	-16.0	-23.4	53	26	48.3	102.66	Mainly Clear
<b>351</b>	1/15/2012 15:00	-15.4	-22.8	53	24	48.3	102.71	Clear
<b>352</b>	1/15/2012 16:00	-15.1	-22.8	52	24	48.3	102.79	Clear
<b>353</b>	1/15/2012 17:00	-16.2	-23.2	55	15	25.0	102.85	Clear
<b>354</b>	1/15/2012 18:00	-16.3	-22.9	57	17	25.0	102.89	Clear
<b>355</b>	1/15/2012 19:00	-16.3	-22.7	58	20	25.0	102.94	Clear
<b>356</b>	1/15/2012 20:00	-16.7	-22.4	61	17	25.0	102.98	Clear
<b>357</b>	1/15/2012 21:00	-16.9	-22.2	63	15	25.0	103.02	Clear

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
358	1/15/2012 22:00	-16.9	-21.7	66	17	25.0	103.07	Clear
359	1/15/2012 23:00	-16.9	-21.4	68	15	25.0	103.09	Clear
360	1/16/2012 0:00	-17.1	-21.9	66	15	25.0	103.09	Clear
361	1/16/2012 1:00	-17.8	-22.7	65	6	25.0	103.05	Clear
362	1/16/2012 2:00	-18.5	-23.0	68	6	25.0	103.08	Clear
363	1/16/2012 3:00	-19.2	-23.8	67	6	25.0	103.07	Clear
364	1/16/2012 4:00	-18.7	-23.5	66	0	25.0	103.05	Clear
365	1/16/2012 5:00	-19.1	-23.3	69	0	25.0	103.02	Clear
366	1/16/2012 6:00	-18.7	-23.2	68	0	25.0	103.01	Clear
367	1/16/2012 7:00	-17.9	-21.5	73	4	48.3	102.96	Mainly Clear
368	1/16/2012 8:00	-17.9	-22.6	67	9	48.3	102.90	Mostly Cloudy
369	1/16/2012 9:00	-14.4	-20.7	59	22	48.3	102.75	Cloudy
370	1/16/2012 10:00	-13.6	-18.7	65	19	48.3	102.62	Mostly Cloudy
371	1/16/2012 11:00	-12.7	-17.7	66	20	48.3	102.44	Mostly Cloudy
372	1/16/2012 12:00	-10.7	-16.9	60	19	48.3	102.17	Mostly Cloudy
373	1/16/2012 13:00	-10.1	-16.1	61	13	48.3	101.92	Cloudy

In [97]: `data[(data['Weather Condition'] == 'Clear') & (data['Rel Hum_%'] > 50) | (data['Visibi`

Out[97]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
0	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
1	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather Condition
<b>2</b>	1/1/2012 2:00	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog
<b>3</b>	1/1/2012 3:00	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
<b>4</b>	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog
...	...	...	...	...	...	...	...	...
<b>8779</b>	12/31/2012 19:00	0.1	-2.7	81	30	9.7	100.13	Snow
<b>8780</b>	12/31/2012 20:00	0.2	-2.4	83	24	9.7	100.03	Snow
<b>8781</b>	12/31/2012 21:00	-0.5	-1.5	93	28	4.8	99.95	Snow
<b>8782</b>	12/31/2012 22:00	-0.2	-1.8	89	28	9.7	99.91	Snow
<b>8783</b>	12/31/2012 23:00	0.0	-2.1	86	30	11.3	99.89	Snow

6933 rows × 8 columns

In [ ]:

In [ ]:

In [ ]: