

```
>>> df = rdd.map(lambda x : x.split()).toDF()
>>> df.show()
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|_1|_2|_3|_4|_5|_6|_7|_8|_9|_10|_11|_12|_13|_14|_15|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|23907|20150101|2.423|-98.08|30.62|2.2|-0.6|0.8|0.9|6.2|1.47|C|3.7|1.1|2.5|
|23907|20150102|2.423|-98.08|30.62|3.5|1.3|2.4|2.2|9.0|1.43|C|4.9|2.3|3.1|
|23907|20150103|2.423|-98.08|30.62|15.9|2.3|9.1|7.5|2.9|11.00|C|16.4|2.9|7.3|
|23907|20150104|2.423|-98.08|30.62|9.2|-1.3|3.9|4.2|0.0|13.24|C|12.4|-0.5|4.9|
|23907|20150105|2.423|-98.08|30.62|10.9|-3.7|3.6|2.6|0.0|13.37|C|14.7|-3.0|3.8|
|23907|20150106|2.423|-98.08|30.62|20.2|2.9|11.6|10.9|0.0|12.90|C|22.0|1.6|9.9|
|23907|20150107|2.423|-98.08|30.62|10.9|-3.4|3.8|4.5|0.0|12.68|C|12.4|-2.1|5.5|
|23907|20150108|2.423|-98.08|30.62|0.6|-7.9|-3.6|-3.3|0.0|4.98|C|3.9|-4.8|-0.5|
|23907|20150109|2.423|-98.08|30.62|2.0|0.1|1.0|0.8|0.0|2.52|C|4.1|1.2|2.5|
|23907|20150110|2.423|-98.08|30.62|0.5|-2.0|-0.8|-0.6|3.3|2.11|C|2.5|-0.1|1.4|
|23907|20150111|2.423|-98.08|30.62|10.9|0.0|5.4|4.4|2.9|6.38|C|12.7|1.3|5.8|
|23907|20150112|2.423|-98.08|30.62|6.5|1.4|4.0|4.3|0.0|1.55|C|6.9|2.7|5.1|
|23907|20150113|2.423|-98.08|30.62|3.0|-0.7|1.1|1.2|0.0|3.26|C|5.6|0.7|2.9|
|23907|20150114|2.423|-98.08|30.62|2.9|0.9|1.9|1.8|0.0|1.88|C|4.7|2.0|3.1|
|23907|20150115|2.423|-98.08|30.62|13.2|1.2|7.2|6.4|0.0|13.37|C|16.4|1.4|6.7|
|23907|20150116|2.423|-98.08|30.62|16.7|3.5|10.1|9.9|0.0|13.68|C|19.2|1.3|8.7|
|23907|20150117|2.423|-98.08|30.62|19.5|5.0|12.2|12.3|0.0|10.96|C|20.9|3.3|10.6|
|23907|20150118|2.423|-98.08|30.62|20.9|7.6|14.3|13.7|0.0|15.03|C|23.4|3.5|11.9|
|23907|20150119|2.423|-98.08|30.62|23.9|6.7|15.3|14.3|0.0|14.10|C|25.6|3.8|12.6|
|23907|20150120|2.423|-98.08|30.62|26.0|9.5|17.8|15.9|0.0|14.57|C|27.9|6.5|14.5|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
only showing top 20 rows
```

```
>>> df = df.select(col("_6").alias("max_temp"), col("_7").alias("min_temp"))
>>> df.show()
+-----+-----+
|max_temp|min_temp|
+-----+-----+
|2.2|-0.6|
|3.5|1.3|
|15.9|2.3|
|9.2|-1.3|
|10.9|-3.7|
|20.2|2.9|
```

```
>>> df.select(max(df.max_temp.cast('int')), min(df.min_temp.cast('double'))).show()
+-----+-----+
|max(CAST(max_temp AS INT))|min(CAST(min_temp AS DOUBLE))|
+-----+-----+
|36|-7.9|
+-----+-----+
```

```
>>> df = rdd.map(lambda x : x.split()).toDF()
>>> df = df.select(col("_2").alias("time"), col("_6").alias("max_temp"), col("_7").alias("min_temp"))
>>> df.show()
```

time	max_temp	min_temp
20150101	2.2	-0.6
20150102	3.5	1.3
20150103	15.9	2.3
20150104	9.2	-1.3
20150105	10.9	-3.7
20150106	20.2	2.9
20150107	10.9	-3.4
20150108	0.6	-7.9
20150109	2.0	0.1
20150110	0.5	-2.0
20150111	10.9	0.0
20150112	6.5	1.4
20150113	3.0	-0.7
20150114	2.9	0.9
20150115	13.2	1.2
20150116	16.7	3.5
20150117	19.5	5.0
20150118	20.9	7.6
20150119	23.9	6.7
20150120	26.0	9.5

only showing top 20 rows

```
>>> df.groupBy("month").agg(max('max_temp').alias('max_temp_monthwise'), min('min_temp').alias('min_temp_monthwise')).show()
```

month	max_temp_monthwise	min_temp_monthwise
01	9.4	-0.6
02	9.4	-0.4
03	4.9	-0.2
04	30.8	10.7
05	31.1	14.3
06	33.6	0.0
07	36.0	19.8