LAB2 Pyspark

Wuhao Wang(wuhwa469) Mucahit Sahin(mucsa806)

Q1: year, station with the max, maxValue ORDER BY maxValue DESC year, station with the min, minValue ORDER BY minValue DESC

,	mraiae oi	DEN DI IIIII Value DESC
+ -	+	++
station max_	_temp	year station min_temp
+	+	++
86200	36.1	1990 147270 -35.0
63600	35.4	1990 166870 -35.0
117160	34.7	1952 192830 -35.5
75250	34.4	1974 179950 -35.6
96560	34.4	1974 166870 -35.6
63050	33.9	1954 113410 -36.0
94050	33.8	1992 179960 -36.1
137100	33.7	1975 157860 -37.0
151640	33.5	1972 167860 -37.5
78290	33.3	1995 182910 -37.6
78290	33.3	2000 169860 -37.6
98210	33.3	1957 159970 -37.8
76470	33.2	1989 166870 -38.2
103080	33.2	1983 191900 -38.2
62400	33.0	1953 183760 -38.4
		2009 179960 -38.5
		1993 191900 -39.0
	32.7	1984 191900 -39.2
	32.7	1984 123480 -39.2
102540	32.6	1973 166870 -39.3
++	+	+++
	station max station max 86200 63600 117160 75250 96560 63050 94050 137100 78290 78290 78290 78290 76470 103080 62400 145340 65160 137040	station max_temp 86200 36.1 63600 35.4 117160 34.7 75250 34.4 96560 34.4 63050 33.9 94050 33.8 137100 33.7 151640 33.5 78290 33.3

Q2: year, month, value ORDER BY value DESC

year, moi	itii, vaiue	ORDER BY V
year	month	count
+	++	+
1972	03	381
1972	11	380
1972	04	380
1972	10	380
1972	12	380
1972	01	379
1971		379
1972	05	379
1973		379
1972	02	379
1971		
1973		
1973	05	378
1971	10	378
1973	02	378
1973	06	377
1973	03	377
1973		376
1972	08	376
1972	06	375
+	++	+

++-		avgivioneiny	Temperature ONDEN BY avgivioni
year mo	onth s	station	avg_mon_temp
++-	+-	+	+
2014	07	96000	26.3
1994	07	65450	23.65483870967742
1994	07	95160	23.505376344086027
1994	07	75120	23.26881720430107
1994	07 I	105260	23.143820224719107
1994	07	85280	23.108602150537635
1983	08	54550	23.0
1975	08	54550	22.9625
1994	07	96550	22.957894736842114
1994	07	96000	22.931182795698923
1994	07	106070	22.822580645161295
1972	07	173960	22.776666666666667
1994	07	54300	22.76021505376344
1994	07	85210	22.755913978494615
2006	07	65450	22.74086021505376
2006	07	75120	22.73010752688173
1994	07	103080	22.708602150537626
1994	07	92100	22.698924731182792
1994	07	94180	22.68172043010753
1994	07	83230	22.577419354838707
++-	+	+	+

Q4:

station, maxTemp, maxDailyPrecipitation ORDER BY station DESC

```
+----+
|station|max_daily|station|max_temp|
+----+
```

Q5:

year, month, avgMonthlyPrecipitation ORDER BY year DESC, month DESC

```
|year|month|
                 avg(sum_pre)
2016
         07|
                             0.0
                         47.6625
|2016|
         06|
         05 | 29 . 2500000000000004 |
|2016|
         04 | 26.9000000000000002 |
|2016|
|2016|
         03 | 19.9625000000000002 |
|2016|
         02 l
                         21.5625
|2016|
         01|22.325000000000003|
|2015|
         12|
                          28.925
|2015|
         11 63.887500000000024
         10|
|2015|
                          2.2625
|2015|
         09|101.29999999999998|
         08 l
2015
                         26.9875
|2015|
         07 | 119 . 09999999999997 |
         06 78.66250000000001
|2015|
         05 | 93.22499999999998 |
|2015|
|2015|
         04 | 15.3374999999999999
|2015|
         03 42.612500000000004
|2015|
         02 l
                          24.825
         01 59.11250000000004
|2015|
         12 | 35.462500000000001 |
|2014|
```