BDA2 – Spark SQL

alebo256 & danibi675

1.

++	++
year Max	year Min
++	++
1975 36.1	1990 -35.0
1992 35.4	1952 -35.5
1994 34.7	1974 -35.6
2010 34.4	1954 -36.0
2014 34.4	1992 -36.1
1989 33.9	1975 -37.0
1982 33.8	1972 -37.5
1968 33.7	1995 -37.6
1966 33.5	2000 -37.6
2002 33.3	1957 -37.8
1983 33.3	1983 -38.2
1986 33.2	1989 -38.2
1970 33.2	1953 -38.4
2000 33.0	2009 -38.5
1956 33.0	1993 -39.0
1959 32.8	1984 -39.2
2006 32.7	2008 -39.3
1991 32.7	1973 -39.3
1988 32.6	1991 -39.3
2011 32.5	2005 -39.4
++	++
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2. a) The cunt for each month of all the times temperature above 10 degrees were recorded.

+	+	+
year		count
+		+
2014	07	147681
2011	07	146656
2010	07	143419
2012	07	137477
2013	07	133657
2009	07	133008
2011	08	132734
2009	08	128349
2013	08	128235
2003	07	128133
2002	07	127956
2006	08	127622
2008	07	126973
2002	08	126073
2005	07	125294
2011	06	125193
2012	08	125037
2006	07	124794
2010	08	124417
2014	08	124045
+	+	+

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2. b) The count for distinct stations.

++	+-	+	
year	month	count	
++	+-	+	
1972	10	378	
1973	05	377	
1973	06	377	
1973	09	376	
1972	08	376	
1971	08	375	
1972	05	375	
1972	06	375	
1972	09	375	
1971	09	374	
1972	07	374	
1971	06	374	
1971	05	373	
1973	08	373	
1974	08	372	
1974	06	372	
1974	05	370	
1971	07	370	
1970	08	370	
1974	09	370	
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3.

+			
station	year	month	avg(value)
++			+
96000	2014	07	26.3
65450	1994	07	23.65483870967742
95160	1994	07	23.505376344086027
75120	1994	07	23.26881720430107
105260	1994	07	23.143820224719107
85280	1994	07	23.108602150537635
54550	1983	08	23.0
54550	1975	08	22.9625
96550	1994	07	22.957894736842114
96000	1994	07	22.931182795698923
106070	1994	07	22.822580645161295
173960	1972	07	22.776666666666667
54300	1994	07	22.76021505376344
85210	1994	07	22.755913978494615
65450	2006	07	22.74086021505376
75120	2006	07	22.73010752688173
103080		3	22.708602150537626
92100			22.698924731182792
94180			22.68172043010753
83230			22.577419354838707
+			

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4. The result was empty.

| station|Max_Perc|Max_Temp| | +-----+

5.

+	++
year month	avg(Sum_Month)
++	++
2016 07	0.0
2016 06	47.6625
2016 05	29.2500000000000007
2016 04	26.90000000000001
2016 03	19.9625000000000002
2016 02	21.5625
2016 01	22.3250000000000003
2015 12	28.925
2015 11	63.887500000000002
2015 10	2.2625
2015 09	101.2999999999997
2015 08	26.987500000000004
2015 07	119.0999999999998
2015 06	78.66250000000001
2015 05	93.22499999999998
2015 04	15.3375
2015 03	42.6125000000000004
2015 02	24.825
2015 01	59.11250000000003
2014 12	35.4625000000000006
++	++

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