

## TDDE31 - Lab1, Results

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# 1 Assignment 1

The lowest and highest temperatures measured for each year for the period 1950-2014:

(Year, max. temperature))

(u'1975', 36.1)  
(u'1992', 35.4)  
(u'1994', 34.7)  
(u'2010', 34.4)  
(u'2014', 34.4)  
(u'1989', 33.9)  
(u'1982', 33.8)  
(u'1968', 33.7)  
(u'1966', 33.5)  
(u'2002', 33.3)  
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.  
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(u'1981', 29.7)  
(u'1987', 29.6)  
(u'1967', 29.5)  
(u'1984', 29.5)  
(u'1960', 29.4)  
(u'1950', 29.4)  
(u'1998', 29.2)  
(u'1951', 28.5)  
(u'1965', 28.5)  
(u'1962', 27.4)

Total of 65 outputs.

(Year, min. temperature))

(u'1990', -35.0)  
(u'1952', -35.5)  
(u'1974', -35.6)  
(u'1954', -36.0)  
(u'1992', -36.1)  
(u'1975', -37.0)  
(u'1972', -37.5)  
(u'2000', -37.6)  
(u'1995', -37.6)  
(u'1957', -37.8)

.  
.  
.  
(u'1981', -44.0)  
(u'1986', -44.2)  
(u'1971', -44.3)  
(u'1956', -45.0)  
(u'1980', -45.0)  
(u'1967', -45.4)  
(u'1987', -47.3)  
(u'1978', -47.7)  
(u'1999', -49.0)  
(u'1966', -49.4)

Total of 65 outputs.

## 2 Assignment 2

### 2.1

Number of readings for each month in the period 1950-2014 which are higher than 10 degrees:

(Year, month, count)

(1997, 4, 3756)

(1974, 7, 66277)

(2003, 5, 48264)

(1981, 10, 9882)

(1981, 3, 395)

(1987, 5, 17191)

(2009, 7, 133008)

(1986, 11, 1198)

(1983, 9, 38692)

(1952, 3, 1)

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(1973, 5, 27886)

(1960, 12, 2)

(1988, 10, 11426)

(1989, 4, 6907)

(1959, 5, 12445)

(1971, 10, 13326)

(1960, 5, 14333)

(1966, 7, 55544)

(1976, 2, 19)

(1983, 6, 49265)

Total of 666 outputs.

## 2.2

Number of readings for each month in the period 1950-2014 which are higher than 10 degrees, with every station only being counted once:

(Year, month, count)

(1979, 4, 227)  
(1974, 7, 362)  
(2003, 5, 321)  
(2004, 4, 267)  
(1981, 10, 325)  
(1983, 9, 332)  
(1987, 5, 320)  
(2009, 7, 312)  
(1986, 11, 138)  
(1994, 9, 299)  
.  
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(2010, 11, 49)  
(1973, 5, 377)  
(1960, 12, 2)  
(1994, 6, 303)  
(1971, 10, 347)  
(1959, 5, 127)  
(1960, 5, 127)  
(1966, 7, 352)  
(1976, 2, 17)  
(1983, 6, 337)

Total of 666 outputs.

### 3 Assignment 3

Average monthly temperature for each available station in Sweden in the period 1960-2014:

(Year, month, station, average temperature)

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(1980, 1, u'155710', -13.353225806451611)
(1976, 9, u'62560', 11.568333333333333)
(1994, 2, u'98180', -6.657142857142857)
(1983, 1, u'96350', 0.8370967741935484)
(1964, 8, u'146380', 11.061290322580646)
(2012, 11, u'188820', -4.468333333333334)
(1999, 2, u'179960', -15.569642857142856)
(1981, 11, u'91130', 1.726666666666667)
(1994, 3, u'134150', -3.762903225806452)
(1960, 4, u'84580', 4.078333333333333)
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(1990, 7, u'133190', 12.461290322580643)
(1982, 2, u'78140', -2.7214285714285715)
(2014, 2, u'78280', 2.226785714285714)
(1983, 7, u'117440', 17.7758064516129)
(1991, 12, u'64560', 0.7838709677419354)
(2011, 2, u'73480', -4.457142857142856)
(1986, 4, u'148350', -1.1633333333333336)
(1967, 7, u'181900', 14.477419354838709)
(2006, 2, u'87450', -2.360714285714286)
(1978, 3, u'139200', -3.5661290322580643)
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Total of 215053 outputs.

## 4 Assignment 4

List stations with their maximum measured temperatures and maximum daily precipitation, where the maximum temperature is between 25-30 degrees and daily precipitation is between 100-200mm.

(Station number, max. temperature, max. daily precipitation)

Total of 0 outputs.

## 5 Assignment 5

Average monthly precipitation for the Östergötland region for the period 1993-2016:

(Year, month, avg. monthly precipitation)

(1996, 11, 67.11666666666665)  
(2006, 9, 19.266666666666666)  
(2014, 5, 58.000000000000014)  
(2004, 12, 24.25)  
(2001, 11, 26.383333333333334)  
(2011, 5, 37.85)  
(2010, 9, 43.083333333333335)  
(2010, 2, 52.750000000000005)  
(2013, 8, 54.075000000000001)  
(2007, 2, 33.066666666666668)  
.  
.  
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(1999, 10, 18.549999999999997)  
(2008, 11, 46.750000000000036)  
(2006, 8, 148.08333333333331)  
(2016, 7, 0.0)  
(2005, 11, 32.600000000000001)  
(2009, 10, 56.833333333333338)  
(2016, 2, 21.562500000000004)  
(1993, 6, 56.5)  
(1995, 9, 134.55)  
(2008, 2, 28.250000000000001)

Total of 280 outputs.