

# TDDE31

## Lab 2

### Exercise 1

```
+-----+-----+-----+
|year|value|station|
+-----+-----+-----+
|1966|-49.4| 179950|
|1999|-49.0| 192830|
|1999|-49.0| 192830|
|1978|-47.7| 155940|
|1987|-47.3| 123480|
|1967|-45.4| 166870|
|1980|-45.0| 191900|
|1980|-45.0| 191900|
|1956|-45.0| 160790|
|1971|-44.3| 166870|
|1986|-44.2| 167860|
|2001|-44.0| 112530|
|1981|-44.0| 166870|
|1981|-44.0| 166870|
|1979|-44.0| 112170|
|1965|-44.0| 189780|
|1959|-43.6| 159970|
|1985|-43.4| 166870|
|1985|-43.4| 159970|
|1958|-43.0| 159970|
|2016|-42.8| 191910|
|1998|-42.7| 169860|
|2012|-42.7| 191910|
|1998|-42.7| 169860|
|1977|-42.5| 179950|
|2014|-42.5| 192840|
|1976|-42.2| 192830|
|2002|-42.2| 169860|
|1982|-42.2| 113410|
|2011|-42.0| 179960|
|1950|-42.0| 155910|
|1962|-42.0| 181900|
|1962|-42.0| 181900|
|1951|-42.0| 155910|
|1968|-42.0| 179950|
|2010|-41.7| 191910|
|1996|-41.7| 155790|
|2003|-41.5| 179960|
|1969|-41.5| 181900|
```

## Exercise 2 \_ A

| year | month | count |
|------|-------|-------|
| 1950 | 12    | 1     |
| 2001 | 03    | 1     |
| 1964 | 02    | 1     |
| 1943 | 03    | 1     |
| 1948 | 11    | 1     |
| 1946 | 02    | 1     |
| 1975 | 12    | 1     |
| 1963 | 03    | 1     |
| 1991 | 02    | 1     |
| 1952 | 02    | 1     |
| 1979 | 01    | 1     |
| 1942 | 01    | 1     |
| 1963 | 12    | 1     |
| 1958 | 01    | 1     |
| 1960 | 01    | 1     |
| 1951 | 02    | 1     |
| 1949 | 02    | 1     |
| 1971 | 02    | 1     |
| 1954 | 02    | 1     |
| 1970 | 01    | 1     |
| 1958 | 02    | 1     |
| 1999 | 12    | 1     |
| 1970 | 03    | 1     |
| 1952 | 11    | 1     |
| 1960 | 02    | 2     |
| 2005 | 12    | 2     |
| 1957 | 02    | 2     |
| 1972 | 01    | 2     |
| 1950 | 11    | 2     |
| 1945 | 11    | 2     |
| 1962 | 02    | 2     |
| 1970 | 12    | 2     |
| 1944 | 04    | 2     |
| 1955 | 03    | 2     |
| 1984 | 01    | 2     |
| 1952 | 03    | 2     |
| 1960 | 12    | 2     |
| 1962 | 03    | 2     |
| 1995 | 02    | 2     |
| 1993 | 12    | 2     |
| 1941 | 04    | 2     |
| 1968 | 01    | 3     |
| 1955 | 01    | 3     |
| 1990 | 01    | 3     |
| 1988 | 11    | 3     |
| 1959 | 01    | 3     |
| 1984 | 03    | 3     |
| 1956 | 02    | 3     |
| 1996 | 03    | 3     |

## Exercise 2 \_ B

| year | month | count |
|------|-------|-------|
| 1949 | 02    | 1     |
| 2001 | 03    | 1     |
| 1964 | 02    | 1     |
| 1999 | 12    | 1     |
| 1948 | 11    | 1     |
| 1952 | 11    | 1     |
| 1950 | 12    | 1     |
| 1945 | 11    | 1     |
| 1952 | 02    | 1     |
| 2005 | 12    | 1     |
| 1958 | 01    | 1     |
| 1942 | 01    | 1     |
| 1960 | 01    | 1     |
| 1963 | 12    | 1     |
| 1963 | 03    | 1     |
| 1975 | 12    | 1     |
| 1946 | 02    | 1     |
| 1979 | 01    | 1     |
| 1972 | 01    | 1     |
| 1991 | 02    | 1     |
| 1955 | 03    | 1     |
| 1970 | 01    | 1     |
| 1958 | 02    | 1     |
| 1951 | 02    | 1     |
| 1971 | 02    | 1     |
| 1993 | 11    | 1     |
| 1954 | 02    | 1     |
| 1991 | 01    | 1     |
| 1970 | 03    | 1     |
| 1943 | 03    | 1     |
| 1941 | 04    | 1     |
| 1941 | 07    | 2     |
| 1968 | 01    | 2     |
| 1941 | 09    | 2     |
| 1957 | 01    | 2     |
| 1944 | 09    | 2     |
| 1946 | 10    | 2     |
| 1943 | 07    | 2     |
| 1957 | 02    | 2     |
| 1942 | 07    | 2     |
| 1941 | 10    | 2     |
| 1944 | 04    | 2     |
| 1942 | 06    | 2     |
| 1947 | 04    | 2     |
| 1944 | 06    | 2     |
| 1962 | 02    | 2     |
| 1997 | 02    | 2     |
| 1944 | 07    | 2     |
| 1946 | 04    | 2     |
| 1970 | 12    | 2     |
| 1944 | 05    | 2     |

### Exercise 3

```
=====
+-----+-----+-----+-----+
|year|month|station|          avg(value) |
+-----+-----+-----+-----+
|2014|  06| 102170| 14.443333333333333|
|2014|  04| 102170|  4.776666666666668|
|2013| 12| 102170|  0.7096774193548391|
|2014|  03| 102170|  1.896774193548387|
|2014|  08| 102170| 13.869354838709679|
|2014|  07| 102170| 19.65967741935484|
|2014| 11| 102170|  2.5250000000000004|
|2014|  01| 102170| -4.106451612903225|
|2014|  09| 102170|  8.584999999999999|
|2014|  02| 102170|  0.6749999999999999|
|2014|  05| 102170| 10.756451612903229|
|2013| 11| 102170|-0.051666666666666...|
|2014| 12| 102170| -5.801612903225806|
|2014| 10| 102170|  7.106451612903227|
|1977|  04| 102190|  0.9816666666666662|
|1965|  04| 102190|  3.71777777777777763|
|1973|  03| 102190|  2.2315217391304345|
|2003|  02| 102190| -6.316071428571429|
|2003|  07| 102190| 17.77741935483871|
|2003| 12| 102190| -2.601612903225807|
|1978| 11| 102190|  2.0150000000000001|
|2001|  09| 102190|  8.938333333333334|
|1974|  06| 102190| 14.317777777777778|
|2006| 10| 102190|  5.911290322580647|
```

## Exercise 4

```
+-----+-----+-----+
| station | MaxPre | MaxTemp |
+-----+-----+-----+
+-----+-----+-----+
```

## Exercise 5

```
=====
=====
+---+---+-----+
|year|month|   avg (sum (value)) |
+---+---+-----+
|1993|  04|                0.0 |
|1993|  05|21.100000000000005|
|1993|  06|                56.5 |
|1993|  07| 95.39999999999999|
|1993|  08| 80.700000000000005|
|1993|  09|                40.6 |
|1993|  10|                43.2 |
|1993|  11| 42.800000000000003|
|1993|  12| 37.100000000000003|
|1994|  01|22.099999999999994|
|1994|  02|22.500000000000004|
|1994|  03| 37.600000000000004|
|1994|  04|23.100000000000005|
|1994|  05|25.100000000000005|
|1994|  06| 45.100000000000002|
|1994|  07|                0.0 |
|1994|  08| 58.800000000000002|
|1994|  09| 94.59999999999991|
|1994|  10| 33.200000000000001|
|1994|  11|15.699999999999992|
|1994|  12| 50.900000000000001|
|1995|  01| 26.000000000000001|
|1995|  02|31.800000000000004|
|1995|  03| 34.400000000000001|
|1995|  04|                61.7 |
|1995|  05| 26.000000000000002|
|1995|  06| 97.199999999999987|
```