# Assignment 3

## Q1

- **Create a table with two columns: FirstName, Father.**

  - **Insert the data of your family members (at least 5 members): you, your father, grandfather, uncle, siblings and cousins**

  - **Write a query to retrieve the first names of your family members and their place in the family hierarchy, starting at your grandfather with level 1.**

# Q2

The following dataset contains the monthly avg temperature in Egypt in the last 100 years, We want to create a line chart to visualize how the temperature has changed over the years, however, the current table structure is not suitable for visualization, derive a new table that can be used to create a line chart with two columns, Date and Temperature.

- o **Before**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1901 | 12.46 | 16.38 | 18.93 | 22.66 | 24.99 | 28.37 | 29.08 | 28.82 | 26.72 | 23.91 | 18.24 | 14.83 |
| 1902 | 12.43 | 15.96 | 17.45 | 22.06 | 25.69 | 27.49 | 28.47 | 28.46 | 27.34 | 24.06 | 17.88 | 13.49 |
| 1903 | 11.71 | 12.94 | 16.91 | 22 | 25.88 | 27.46 | 27.79 | 28.18 | 25.71 | 22.64 | 17.34 | 14.31 |
| 1904 | 12.48 | 14.94 | 17.61 | 21.08 | 24.92 | 27.34 | 28.31 | 28.39 | 26.31 | 24.53 | 17.08 | 12.63 |
| 1905 | 11.38 | 11.96 | 16 | 21.82 | 26.1 | 28.36 | 29.41 | 28.96 | 27.41 | 25.07 | 20.16 | 13.36 |
| 1906 | 12.58 | 14.58 | 18.01 | 22.35 | 25.59 | 28.99 | 29.3 | 29.1 | 26.3 | 24.16 | 19.11 | 15.72 |
| 1907 | 13.19 | 14.6 | 15.89 | 21.4 | 25.61 | 28.05 | 28.79 | 28.72 | 26.28 | 23.46 | 17.77 | 14.61 |
| 1908 | 13.1 | 14.41 | 18.08 | 22.61 | 26.33 | 28.41 | 28.44 | 28.39 | 26.64 | 24.07 | 17.8 | 13.14 |
| 1909 | 12.82 | 14.73 | 19.76 | 21.01 | 28.21 | 29.21 | 29.76 | 29.52 | 27.53 | 24.39 | 19.74 | 15.91 |
| 1910 | 12.59 | 14.91 | 15.4 | 23.32 | 26.2 | 28.11 | 29.28 | 29.22 | 27.17 | 22.87 | 18.04 | 13.45 |
| 1911 | 12.68 | 12.65 | 16.86 | 21.84 | 26.1 | 28.05 | 28.97 | 28.7 | 26.48 | 24.12 | 19.08 | 14.37 |
| 1912 | 12.42 | 15.34 | 17.7 | 22.1 | 25.03 | 27.84 | 28.43 | 28.16 | 26.75 | 23.93 | 18.71 | 13.84 |
| 1913 | 13 | 13.91 | 16.55 | 22.59 | 24.98 | 27.32 | 28.74 | 28.49 | 27.42 | 24.19 | 17.74 | 13.44 |
| 1914 | 13.23 | 14.54 | 19.02 | 20.44 | 26.37 | 28.71 | 29.05 | 29.59 | 27.09 | 23.53 | 19.42 | 14.92 |

- o **After**

| Temperature | Date |
|------|------|
| 12.46 | Jan 1901 |
| 16.38 | Feb 1901 |
| 18.93 | Mar 1901 |
| 22.66 | Apr 1901 |
| 24.99 | May 1901 |
| 28.37 | Jun 1901 |
| 29.08 | Jul 1901 |
| 28.82 | Aug 1901 |
| 26.72 | Sep 1901 |

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