Name	month	year	length
Carl Friedrich Gauss	4	1777	0
Camille Jordan	1	1838	12
Adrien-Marie Legendre	9	1752	0
Bernhard Riemann	9	1826	15
David Hilbert	1	1862	2
Henri Poincaré	4	1854	5
Emmy Noether	3	1882	0
Karl Weierstrass	10	1815	0
Eugenio Beltrami	10	1835	2
Hermann Schwarz	1	1843	20

The mean of the first column is 5.2, and the centered data set is given below.

Name	month	year	length
Carl Friedrich Gauss	−1.2	−51.4	−5.6
Camille Jordan	−4.2	9.6	6.4
Adrien-Marie Legendre	3.8	−76.4	−5.6
Bernhard Riemann	3.8	−2.4	9.4
David Hilbert	−4.2	33.6	−3.6
Henri Poincaré	−1.2	25.6	−0.6
Emmy Noether	−2.2	53.6	−5.6
Karl Weierstrass	4.8	13.4	−5.6
Eugenio Beltrami	4.8	6.6	−3.6
Hermann Schwarz	−4.2	14.6	14.4

Running SVD on this data set we get

$$
U = \begin{pmatrix} 0.0394 & 0.1717 & 0.9844 \\ -0.9987 & 0.0390 & 0.0332 \\ -0.0327 & -0.9844 & 0.1730 \end{pmatrix}, \qquad D = \begin{pmatrix} 117.0706 & 0 & 0 \\ 0 & 22.0390 & 0 \\ 0 & 0 & 10.1571 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix},
$$