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	*
19	1901		12.46		16.38		18.93		22.66		24.99		28.37		8	28.82	26.72		23.91		18.24		14.83	
19	1902		12.43		15.96		17.45		22.06		25.69		27.49		7	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	1.31
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	
19	1905		11.38		11.96		16		21.82		26.1		28.36		1	28.96	27.41		25.07		20.16		13.36	
19	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	
19	1907 13.		.19	14.6		15.89		21.4		25.61		28.05		28.79 28.72		26.28		23.46		17.77		14	1.61	
19	1908 13.1		3.1	14.	14.41 18.08		.08	22.61		26.33		28.41		28.44		28.39	26.64		24.07		17.8		13	3.14
19	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	
19	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		
19	1911 1.		.68	12.65		16.86		21	21.84 2		6.1	5.1 28.05		28.97		28.7	26.48		24.12		19.08		14.37	
19	1912		12.42		15.34		17.7		22.1		25.03		27.84		3	28.16	26.75		23.93		18.71		13.84	
19	913	3 13 13.91 16.55 22.5		.59	24.98		27.32		28.74		28.49	27.42		24.19		17.74		13.44						
19	1914		13.23		14.54		.02	20.44		26.37		28.71		29.05		29.59	27.09		23.53		19.42		14.92	

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