W45: OpenRefine

1. **Create a *tidy* spreadsheet/table listing the names of Danish monarchs with their birth- and death-date and duration of reign. They should be sortable by year of birth.**
   - I created a spreadsheet using the principles from the text in data organization. I made sure, that no cells were left empty and that all the data had proper names.

	A	B	C	D
1	name	birth	deatg	reign_duration
2	Gorm_Den_(	N/A	958	N/A
3	Harald_Blåta	N/A	987	29
4	Svend-Tveska	N/A	1014	27
5	Harald2_Sve	N/A	1018	4
6	Knud_Den_S	995	1035	17
7	Hardeknud	1020	1042	7
8	Magnus_Der	1024	1047	5
9	Svend2_Estri	N/A	1076	27
10	Harald3_Hen	N/A	1080	6
11	Knud4_Den_	N/A	1086	6
12	Oluf1_Hunge	N/A	1095	9
13	Erik1_Ejegod	1056	1103	8
14	Niels	N/A	1134	30
15	Erik2_Emune	N/A	1137	3
16	Erik3_Lam	N/A	1146	9
17	Svend3_Grat	N/A	1157	11
18	Knud5_Magr	N/A	1157	11
19	Valdemar1_I	1131	1182	25
20	Knud6	1163	1202	20
21	Valdemar2_S	1170	1241	39
22	Erik4_Plovpe	1216	1250	9
23	Abel	1218	1252	2
24	Christoffer1	1219	1259	7
25	Erik5_Klippin	1249	1286	27
26	Erik6_Menve	1274	1319	33
27	Christoffer2	1276	1332	8
28	Valdemar3_I	1314	1330	35
29	Interregnum	N/A	N/A	8
30	Valdemar4_A	1320	1375	35
31	Oluf2	1370	1387	11
32	Magrete1	1353	1412	25
33	Erik7_Af_Por	1382	1459	27
34	Christoffer3_	1416	1448	8
35	Frederik2	1534	1588	29
36	Christian4	1577	1648	60
37	Frederik3	1609	1670	22
38	Christian5	1646	1699	29
39	Frederik4	1671	1730	31
40	Christian6	1699	1746	16
41	Frederik5	1723	1766	20
42	Christian7	1749	1808	42
43	Frederik6	1768	1839	31
44	Christian8	1786	1848	9
45	Frederik7	1808	1863	15
46	Christian9	1818	1906	43
47	Frederik8	1843	1912	6
48	Christian10	1870	1947	35
49	Frederik9	1899	1972	25
50	Magrethe2	1940	N/A	49

2. Does OpenRefine alter the raw data during sorting and filtering?

OpenRefine does not alter the raw data. It allows me to alter the layout and organize it in different visualizations. I used my spreadsheet from before and put it into OpenRefine. It did not alter the data.

	1.	Gorm_Den_Gamle	N/A	958	N/A
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	3.	Svend-Tveskæg	N/A	1014	27
	4.	Harald2_Svendsen	N/A	1018	4
	5.	Knud_Den_Store	995	1035	17
	6.	Hardeknud	1020	1042	7
	7.	Magnus_Den_Gode	1024	1047	5
	8.	Svend2_Estridsen	N/A	1076	27
	9.	Harald3_Hen	N/A	1080	6
	10.	Knud4_Den_Hellige	N/A	1086	6
	11.	Oluf1_Hunger	N/A	1095	9
	12.	Erik1_Ejegod	1056	1103	8
	13.	Niels	N/A	1134	30
	14.	Erik2_Emune	N/A	1137	3
	15.	Erik3_Lam	N/A	1146	9
	16.	Svend3_Grathe	N/A	1157	11
	17.	Knud5_Magnussen	N/A	1157	11
	18.	Valdemar1_Den_Store	1131	1182	25
	19.	Knud6	1163	1202	20
	20.	Valdemar2_Sejr	1170	1241	39
	21.	Erik4_Plovpenning	1216	1250	9
	22.	Abel	1218	1252	2
	23.	Christoffer1	1219	1259	7
	24.	Erik5_Klipping	1249	1286	27
	25.	Erik6_Menved	1274	1319	33
	26.	Christoffer2	1276	1332	8
	27.	Valdemar3_Eriksen	1314	1330	35
	28.	Interregnum	N/A	N/A	8

3. Fix the interviews dataset in OpenRefine enough to answer this question: "Which two months are reported as the most water-deprived/driest by the interviewed farmer households?"

By using OpenRefine on the dataset. I was able to find the two driest months. I have included a table of my results. The two driest months are September and October.

Jan	2
Feb	0
Mar	0
Apr	1
May	1
June	1

July	2
Aug	33
Sept	70
Oct	74
Nov	51
Dec	11