

An evaluation of the effect of de-identification choices on your data

September 12, 2020

This report shows the effect of various choices made when using the `deidentify` package on how private your data is. It shows what the results of the data look like when considering how many people are in each group for every choice you can make. If the user set a preferred range (or minimum) k-score for results, it starts by showing the choices that satisfy a set parameter of accepting number of rows for each group. Then (or if no preferred range/minimum is set this will be the first table) it shows the k-score for every possible combination of choices. Finally, it shows the number of unique dates at every level of aggregation (week, month, bimonth, quarter, halfyear, and year) for each date columns, and the percent of unique values dropped when excluding values that are less common than x% (where x is 1%-99%) limit.

time_aggregation	rare_values_limit	min_k_score	mean_k_score	median_k_score	max_k_score
week	1	1	1	1	1
month	1	1	1	1	1
bimonth	1	1	1	1	1
quarter	1	1	1	1	1
halfyear	1	1	1	1	1
year	1	1	1	1	1
week	2	1	1	1	1
month	2	1	1	1	1
bimonth	2	1	1	1	1
quarter	2	1	1	1	1
halfyear	2	1	1	1	1
year	2	1	1	1	1
week	3	1	1	1	1
month	3	1	1	1	1
bimonth	3	1	1	1	1
quarter	3	1	1	1	1
halfyear	3	1	1	1	1
year	3	1	1	1	1
week	4	1	1	1	1
month	4	1	1	1	1
bimonth	4	1	1	1	1
quarter	4	1	1	1	1
halfyear	4	1	1	1	1
year	4	1	1	1	1
week	5	1	1	1	1
month	5	1	1	1	1
bimonth	5	1	1	1	1
quarter	5	1	1	1	1
halfyear	5	1	1	1	1
year	5	1	1	1	1
week	6	1	1	1	1
month	6	1	1	1	1
bimonth	6	1	1	1	1
quarter	6	1	1	1	1

halfyear	6	1	1	1	1
year	6	1	1	1	1
week	7	1	1	1	1
month	7	1	1	1	1
bimonth	7	1	1	1	1
quarter	7	1	1	1	1
halfyear	7	1	1	1	1
year	7	1	1	1	1
week	8	1	1	1	1
month	8	1	1	1	1
bimonth	8	1	1	1	1
quarter	8	1	1	1	1
halfyear	8	1	1	1	1
year	8	1	1	1	1
week	9	1	1	1	1
month	9	1	1	1	1
bimonth	9	1	1	1	1
quarter	9	1	1	1	1
halfyear	9	1	1	1	1
year	9	1	1	1	1
week	10	1	1	1	1
month	10	1	1	1	1
bimonth	10	1	1	1	1
quarter	10	1	1	1	1
halfyear	10	1	1	1	1
year	10	1	1	1	1
week	11	1	1	1	1
month	11	1	1	1	1
bimonth	11	1	1	1	1
quarter	11	1	1	1	1
halfyear	11	1	1	1	1
year	11	1	1	1	1
week	12	1	1	1	1
month	12	1	1	1	1
bimonth	12	1	1	1	1
quarter	12	1	1	1	1
halfyear	12	1	1	1	1
year	12	1	1	1	1
week	13	1	1	1	1
month	13	1	1	1	1
bimonth	13	1	1	1	1
quarter	13	1	1	1	1
halfyear	13	1	1	1	1
year	13	1	1	1	1
week	14	1	1	1	1
month	14	1	1	1	1
bimonth	14	1	1	1	1
quarter	14	1	1	1	1
halfyear	14	1	1	1	1
year	14	1	1	1	1
week	15	1	1	1	1
month	15	1	1	1	1
bimonth	15	1	1	1	1
quarter	15	1	1	1	1

halfyear	15	1	1	1	1
year	15	1	1	1	1
week	16	1	1	1	1
month	16	1	1	1	1
bimonth	16	1	1	1	1
quarter	16	1	1	1	1
halfyear	16	1	1	1	1
year	16	1	1	1	1
week	17	1	1	1	1
month	17	1	1	1	1
bimonth	17	1	1	1	1
quarter	17	1	1	1	1
halfyear	17	1	1	1	1
year	17	1	1	1	1
week	18	1	1	1	1
month	18	1	1	1	1
bimonth	18	1	1	1	1
quarter	18	1	1	1	1
halfyear	18	1	1	1	1
year	18	1	1	1	1
week	19	1	1	1	1
month	19	1	1	1	1
bimonth	19	1	1	1	1
quarter	19	1	1	1	1
halfyear	19	1	1	1	1
year	19	1	1	1	1
week	20	1	1	1	1
month	20	1	1	1	1
bimonth	20	1	1	1	1
quarter	20	1	1	1	1
halfyear	20	1	1	1	1
year	20	1	1	1	1
week	21	1	1	1	1
month	21	1	1	1	1
bimonth	21	1	1	1	1
quarter	21	1	1	1	1
halfyear	21	1	1	1	1
year	21	1	1	1	1
week	22	1	1	1	1
month	22	1	1	1	1
bimonth	22	1	1	1	1
quarter	22	1	1	1	1
halfyear	22	1	1	1	1
year	22	1	1	1	1
week	23	1	1	1	1
month	23	1	1	1	1
bimonth	23	1	1	1	1
quarter	23	1	1	1	1
halfyear	23	1	1	1	1
year	23	1	1	1	1
week	24	1	1	1	1
month	24	1	1	1	1
bimonth	24	1	1	1	1
quarter	24	1	1	1	1

halfyear	24	1	1	1	1
year	24	1	1	1	1
week	25	1	1	1	1
month	25	1	1	1	1
bimonth	25	1	1	1	1
quarter	25	1	1	1	1
halfyear	25	1	1	1	1
year	25	1	1	1	1
week	26	1	1	1	1
month	26	1	1	1	1
bimonth	26	1	1	1	1
quarter	26	1	1	1	1
halfyear	26	1	1	1	1
year	26	1	1	1	1
week	27	1	1	1	1
month	27	1	1	1	1
bimonth	27	1	1	1	1
quarter	27	1	1	1	1
halfyear	27	1	1	1	1
year	27	1	1	1	1
week	28	1	1	1	1
month	28	1	1	1	1
bimonth	28	1	1	1	1
quarter	28	1	1	1	1
halfyear	28	1	1	1	1
year	28	1	1	1	1
week	29	1	1	1	1
month	29	1	1	1	1
bimonth	29	1	1	1	1
quarter	29	1	1	1	1
halfyear	29	1	1	1	1
year	29	1	1	1	1
week	30	1	1	1	1
month	30	1	1	1	1
bimonth	30	1	1	1	1
quarter	30	1	1	1	1
halfyear	30	1	1	1	1
year	30	1	1	1	1
week	31	1	1	1	1
month	31	1	1	1	1
bimonth	31	1	1	1	1
quarter	31	1	1	1	1
halfyear	31	1	1	1	1
year	31	1	1	1	1
week	32	1	1	1	1
month	32	1	1	1	1
bimonth	32	1	1	1	1
quarter	32	1	1	1	1
halfyear	32	1	1	1	1
year	32	1	1	1	1
week	33	1	1	1	1
month	33	1	1	1	1
bimonth	33	1	1	1	1
quarter	33	1	1	1	1

halfyear	33	1	1	1	1
year	33	1	1	1	1
week	34	1	1	1	1
month	34	1	1	1	1
bimonth	34	1	1	1	1
quarter	34	1	1	1	1
halfyear	34	1	1	1	1
year	34	1	1	1	1
week	35	1	1	1	1
month	35	1	1	1	1
bimonth	35	1	1	1	1
quarter	35	1	1	1	1
halfyear	35	1	1	1	1
year	35	1	1	1	1
week	36	1	1	1	1
month	36	1	1	1	1
bimonth	36	1	1	1	1
quarter	36	1	1	1	1
halfyear	36	1	1	1	1
year	36	1	1	1	1
week	37	1	1	1	1
month	37	1	1	1	1
bimonth	37	1	1	1	1
quarter	37	1	1	1	1
halfyear	37	1	1	1	1
year	37	1	1	1	1
week	38	1	1	1	1
month	38	1	1	1	1
bimonth	38	1	1	1	1
quarter	38	1	1	1	1
halfyear	38	1	1	1	1
year	38	1	1	1	1
week	39	1	1	1	1
month	39	1	1	1	1
bimonth	39	1	1	1	1
quarter	39	1	1	1	1
halfyear	39	1	1	1	1
year	39	1	1	1	1
week	40	1	1	1	1
month	40	1	1	1	1
bimonth	40	1	1	1	1
quarter	40	1	1	1	1
halfyear	40	1	1	1	1
year	40	1	1	1	1
week	41	1	1	1	1
month	41	1	1	1	1
bimonth	41	1	1	1	1
quarter	41	1	1	1	1
halfyear	41	1	1	1	1
year	41	1	1	1	1
week	42	1	1	1	1
month	42	1	1	1	1
bimonth	42	1	1	1	1
quarter	42	1	1	1	1

halfyear	42	1	1	1	1
year	42	1	1	1	1
week	43	1	1	1	1
month	43	1	1	1	1
bimonth	43	1	1	1	1
quarter	43	1	1	1	1
halfyear	43	1	1	1	1
year	43	1	1	1	1
week	44	1	1	1	1
month	44	1	1	1	1
bimonth	44	1	1	1	1
quarter	44	1	1	1	1
halfyear	44	1	1	1	1
year	44	1	1	1	1
week	45	1	1	1	1
month	45	1	1	1	1
bimonth	45	1	1	1	1
quarter	45	1	1	1	1
halfyear	45	1	1	1	1
year	45	1	1	1	1
week	46	1	1	1	1
month	46	1	1	1	1
bimonth	46	1	1	1	1
quarter	46	1	1	1	1
halfyear	46	1	1	1	1
year	46	1	1	1	1
week	47	1	1	1	1
month	47	1	1	1	1
bimonth	47	1	1	1	1
quarter	47	1	1	1	1
halfyear	47	1	1	1	1
year	47	1	1	1	1
week	48	1	1	1	1
month	48	1	1	1	1
bimonth	48	1	1	1	1
quarter	48	1	1	1	1
halfyear	48	1	1	1	1
year	48	1	1	1	1
week	49	1	1	1	1
month	49	1	1	1	1
bimonth	49	1	1	1	1
quarter	49	1	1	1	1
halfyear	49	1	1	1	1
year	49	1	1	1	1
week	50	1	1	1	1
month	50	1	1	1	1
bimonth	50	1	1	1	1
quarter	50	1	1	1	1
halfyear	50	1	1	1	1
year	50	1	1	1	1
week	51	1	1	1	1
month	51	1	1	1	1
bimonth	51	1	1	1	1
quarter	51	1	1	1	1

halfyear	51	1	1	1	1
year	51	1	1	1	1
week	52	1	1	1	1
month	52	1	1	1	1
bimonth	52	1	1	1	1
quarter	52	1	1	1	1
halfyear	52	1	1	1	1
year	52	1	1	1	1
week	53	1	1	1	1
month	53	1	1	1	1
bimonth	53	1	1	1	1
quarter	53	1	1	1	1
halfyear	53	1	1	1	1
year	53	1	1	1	1
week	54	1	1	1	1
month	54	1	1	1	1
bimonth	54	1	1	1	1
quarter	54	1	1	1	1
halfyear	54	1	1	1	1
year	54	1	1	1	1
week	55	1	1	1	1
month	55	1	1	1	1
bimonth	55	1	1	1	1
quarter	55	1	1	1	1
halfyear	55	1	1	1	1
year	55	1	1	1	1
week	56	1	1	1	1
month	56	1	1	1	1
bimonth	56	1	1	1	1
quarter	56	1	1	1	1
halfyear	56	1	1	1	1
year	56	1	1	1	1
week	57	1	1	1	1
month	57	1	1	1	1
bimonth	57	1	1	1	1
quarter	57	1	1	1	1
halfyear	57	1	1	1	1
year	57	1	1	1	1
week	58	1	1	1	1
month	58	1	1	1	1
bimonth	58	1	1	1	1
quarter	58	1	1	1	1
halfyear	58	1	1	1	1
year	58	1	1	1	1
week	59	1	1	1	1
month	59	1	1	1	1
bimonth	59	1	1	1	1
quarter	59	1	1	1	1
halfyear	59	1	1	1	1
year	59	1	1	1	1
week	60	1	1	1	1
month	60	1	1	1	1
bimonth	60	1	1	1	1
quarter	60	1	1	1	1

halfyear	60	1	1	1	1
year	60	1	1	1	1
week	61	1	1	1	1
month	61	1	1	1	1
bimonth	61	1	1	1	1
quarter	61	1	1	1	1
halfyear	61	1	1	1	1
year	61	1	1	1	1
week	62	1	1	1	1
month	62	1	1	1	1
bimonth	62	1	1	1	1
quarter	62	1	1	1	1
halfyear	62	1	1	1	1
year	62	1	1	1	1
week	63	1	1	1	1
month	63	1	1	1	1
bimonth	63	1	1	1	1
quarter	63	1	1	1	1
halfyear	63	1	1	1	1
year	63	1	1	1	1
week	64	1	1	1	1
month	64	1	1	1	1
bimonth	64	1	1	1	1
quarter	64	1	1	1	1
halfyear	64	1	1	1	1
year	64	1	1	1	1
week	65	1	1	1	1
month	65	1	1	1	1
bimonth	65	1	1	1	1
quarter	65	1	1	1	1
halfyear	65	1	1	1	1
year	65	1	1	1	1
week	66	1	1	1	1
month	66	1	1	1	1
bimonth	66	1	1	1	1
quarter	66	1	1	1	1
halfyear	66	1	1	1	1
year	66	1	1	1	1
week	67	1	1	1	1
month	67	1	1	1	1
bimonth	67	1	1	1	1
quarter	67	1	1	1	1
halfyear	67	1	1	1	1
year	67	1	1	1	1
week	68	1	1	1	1
month	68	1	1	1	1
bimonth	68	1	1	1	1
quarter	68	1	1	1	1
halfyear	68	1	1	1	1
year	68	1	1	1	1
week	69	1	1	1	1
month	69	1	1	1	1
bimonth	69	1	1	1	1
quarter	69	1	1	1	1

halfyear	69	1	1	1	1
year	69	1	1	1	1
week	70	1	1	1	1
month	70	1	1	1	1
bimonth	70	1	1	1	1
quarter	70	1	1	1	1
halfyear	70	1	1	1	1
year	70	1	1	1	1
week	71	1	1	1	1
month	71	1	1	1	1
bimonth	71	1	1	1	1
quarter	71	1	1	1	1
halfyear	71	1	1	1	1
year	71	1	1	1	1
week	72	1	1	1	1
month	72	1	1	1	1
bimonth	72	1	1	1	1
quarter	72	1	1	1	1
halfyear	72	1	1	1	1
year	72	1	1	1	1
week	73	1	1	1	1
month	73	1	1	1	1
bimonth	73	1	1	1	1
quarter	73	1	1	1	1
halfyear	73	1	1	1	1
year	73	1	1	1	1
week	74	1	1	1	1
month	74	1	1	1	1
bimonth	74	1	1	1	1
quarter	74	1	1	1	1
halfyear	74	1	1	1	1
year	74	1	1	1	1
week	75	1	1	1	1
month	75	1	1	1	1
bimonth	75	1	1	1	1
quarter	75	1	1	1	1
halfyear	75	1	1	1	1
year	75	1	1	1	1
week	76	1	1	1	1
month	76	1	1	1	1
bimonth	76	1	1	1	1
quarter	76	1	1	1	1
halfyear	76	1	1	1	1
year	76	1	1	1	1
week	77	1	1	1	1
month	77	1	1	1	1
bimonth	77	1	1	1	1
quarter	77	1	1	1	1
halfyear	77	1	1	1	1
year	77	1	1	1	1
week	78	1	1	1	1
month	78	1	1	1	1
bimonth	78	1	1	1	1
quarter	78	1	1	1	1

halfyear	78	1	1	1	1
year	78	1	1	1	1
week	79	1	1	1	1
month	79	1	1	1	1
bimonth	79	1	1	1	1
quarter	79	1	1	1	1
halfyear	79	1	1	1	1
year	79	1	1	1	1
week	80	1	1	1	1
month	80	1	1	1	1
bimonth	80	1	1	1	1
quarter	80	1	1	1	1
halfyear	80	1	1	1	1
year	80	1	1	1	1
week	81	1	1	1	1
month	81	1	1	1	1
bimonth	81	1	1	1	1
quarter	81	1	1	1	1
halfyear	81	1	1	1	1
year	81	1	1	1	1
week	82	1	1	1	1
month	82	1	1	1	1
bimonth	82	1	1	1	1
quarter	82	1	1	1	1
halfyear	82	1	1	1	1
year	82	1	1	1	1
week	83	1	1	1	1
month	83	1	1	1	1
bimonth	83	1	1	1	1
quarter	83	1	1	1	1
halfyear	83	1	1	1	1
year	83	1	1	1	1
week	84	1	1	1	1
month	84	1	1	1	1
bimonth	84	1	1	1	1
quarter	84	1	1	1	1
halfyear	84	1	1	1	1
year	84	1	1	1	1
week	85	1	1	1	1
month	85	1	1	1	1
bimonth	85	1	1	1	1
quarter	85	1	1	1	1
halfyear	85	1	1	1	1
year	85	1	1	1	1
week	86	1	1	1	1
month	86	1	1	1	1
bimonth	86	1	1	1	1
quarter	86	1	1	1	1
halfyear	86	1	1	1	1
year	86	1	1	1	1
week	87	1	1	1	1
month	87	1	1	1	1
bimonth	87	1	1	1	1
quarter	87	1	1	1	1

halfyear	87	1	1	1	1
year	87	1	1	1	1
week	88	1	1	1	1
month	88	1	1	1	1
bimonth	88	1	1	1	1
quarter	88	1	1	1	1
halfyear	88	1	1	1	1
year	88	1	1	1	1
week	89	1	1	1	1
month	89	1	1	1	1
bimonth	89	1	1	1	1
quarter	89	1	1	1	1
halfyear	89	1	1	1	1
year	89	1	1	1	1
week	90	1	1	1	1
month	90	1	1	1	1
bimonth	90	1	1	1	1
quarter	90	1	1	1	1
halfyear	90	1	1	1	1
year	90	1	1	1	1
week	91	1	1	1	1
month	91	1	1	1	1
bimonth	91	1	1	1	1
quarter	91	1	1	1	1
halfyear	91	1	1	1	1
year	91	1	1	1	1
week	92	1	1	1	1
month	92	1	1	1	1
bimonth	92	1	1	1	1
quarter	92	1	1	1	1
halfyear	92	1	1	1	1
year	92	1	1	1	1
week	93	1	1	1	1
month	93	1	1	1	1
bimonth	93	1	1	1	1
quarter	93	1	1	1	1
halfyear	93	1	1	1	1
year	93	1	1	1	1
week	94	1	1	1	1
month	94	1	1	1	1
bimonth	94	1	1	1	1
quarter	94	1	1	1	1
halfyear	94	1	1	1	1
year	94	1	1	1	1
week	95	1	1	1	1
month	95	1	1	1	1
bimonth	95	1	1	1	1
quarter	95	1	1	1	1
halfyear	95	1	1	1	1
year	95	1	1	1	1
week	96	1	1	1	1
month	96	1	1	1	1
bimonth	96	1	1	1	1
quarter	96	1	1	1	1

halfyear	96	1	1	1	1
year	96	1	1	1	1
week	97	1	1	1	1
month	97	1	1	1	1
bimonth	97	1	1	1	1
quarter	97	1	1	1	1
halfyear	97	1	1	1	1
year	97	1	1	1	1
week	98	1	1	1	1
month	98	1	1	1	1
bimonth	98	1	1	1	1
quarter	98	1	1	1	1
halfyear	98	1	1	1	1
year	98	1	1	1	1
week	99	1	1	1	1
month	99	1	1	1	1
bimonth	99	1	1	1	1
quarter	99	1	1	1	1
halfyear	99	1	1	1	1
year	99	1	1	1	1
week	100	1	1	1	1
month	100	1	1	1	1
bimonth	100	1	1	1	1
quarter	100	1	1	1	1
halfyear	100	1	1	1	1
year	100	1	1	1	1

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month	1	1	1	1	1
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quarter	1	1	1	1	1
halfyear	1	1	1	1	1
year	1	1	1	1	1
week	2	1	1	1	1
month	2	1	1	1	1
bimonth	2	1	1	1	1
quarter	2	1	1	1	1
halfyear	2	1	1	1	1
year	2	1	1	1	1
week	3	1	1	1	1
month	3	1	1	1	1
bimonth	3	1	1	1	1
quarter	3	1	1	1	1
halfyear	3	1	1	1	1
year	3	1	1	1	1
week	4	1	1	1	1
month	4	1	1	1	1
bimonth	4	1	1	1	1
quarter	4	1	1	1	1
halfyear	4	1	1	1	1
year	4	1	1	1	1
week	5	1	1	1	1
month	5	1	1	1	1
bimonth	5	1	1	1	1
quarter	5	1	1	1	1
halfyear	5	1	1	1	1
year	5	1	1	1	1
week	6	1	1	1	1
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year	8	1	1	1	1
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month	9	1	1	1	1
bimonth	9	1	1	1	1
quarter	9	1	1	1	1

halfyear	9	1	1	1	1
year	9	1	1	1	1
week	10	1	1	1	1
month	10	1	1	1	1
bimonth	10	1	1	1	1
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year	17	1	1	1	1
week	18	1	1	1	1
month	18	1	1	1	1
bimonth	18	1	1	1	1
quarter	18	1	1	1	1

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quarter	27	1	1	1	1

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year	35	1	1	1	1
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month	36	1	1	1	1
bimonth	36	1	1	1	1
quarter	36	1	1	1	1

halfyear	36	1	1	1	1
year	36	1	1	1	1
week	37	1	1	1	1
month	37	1	1	1	1
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year	44	1	1	1	1
week	45	1	1	1	1
month	45	1	1	1	1
bimonth	45	1	1	1	1
quarter	45	1	1	1	1

halfyear	45	1	1	1	1
year	45	1	1	1	1
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month	46	1	1	1	1
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quarter	63	1	1	1	1

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halfyear	80	1	1	1	1
year	80	1	1	1	1
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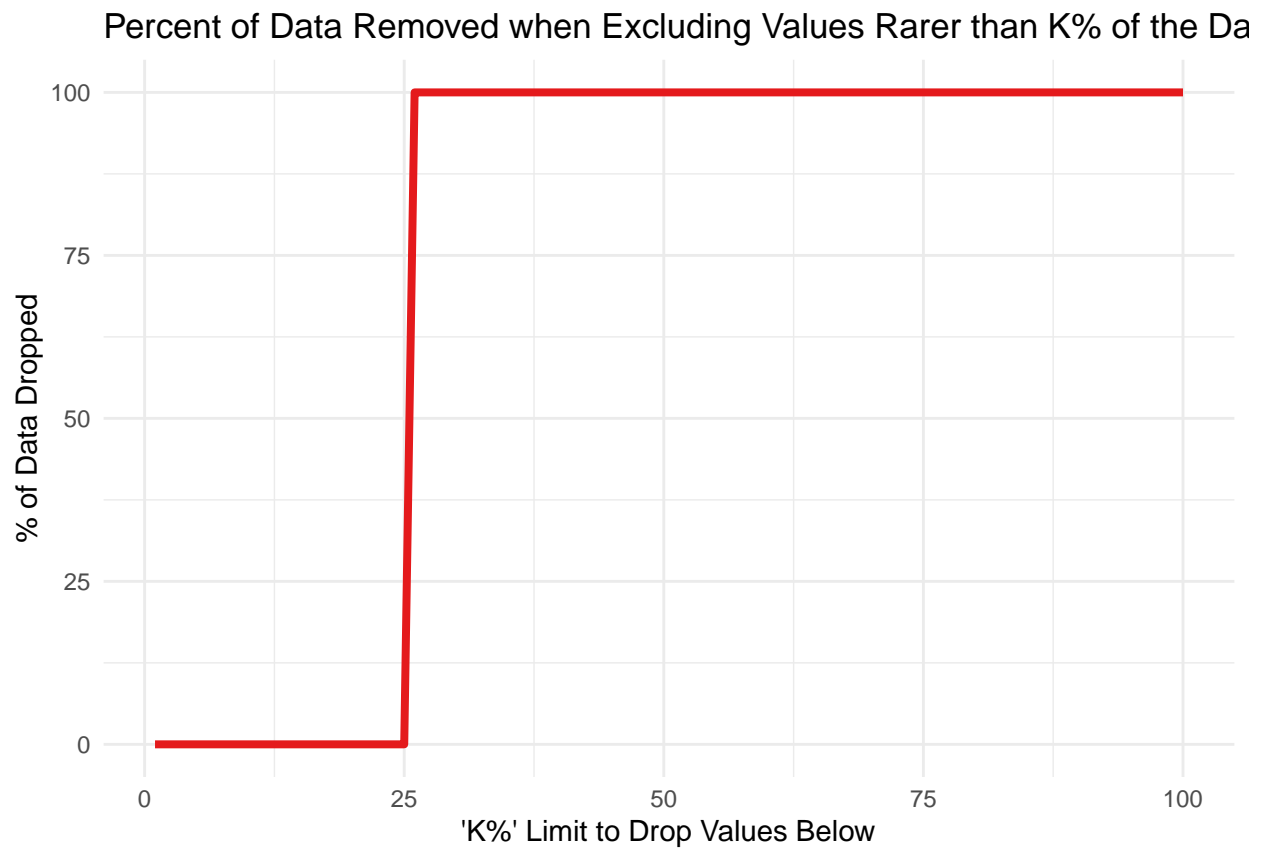
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halfyear	89	1	1	1	1
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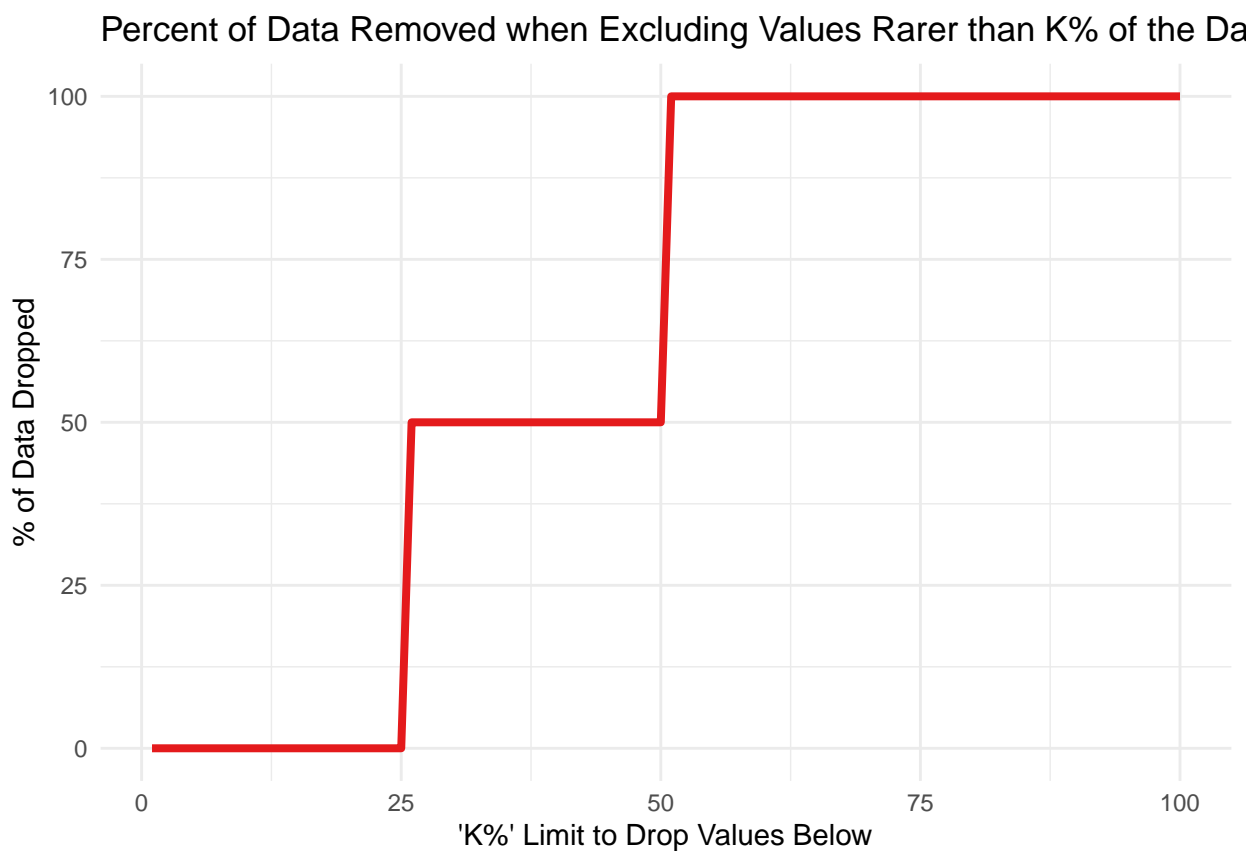
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year	96	1	1	1	1
week	97	1	1	1	1
month	97	1	1	1	1
bimonth	97	1	1	1	1
quarter	97	1	1	1	1
halfyear	97	1	1	1	1
year	97	1	1	1	1
week	98	1	1	1	1
month	98	1	1	1	1
bimonth	98	1	1	1	1
quarter	98	1	1	1	1
halfyear	98	1	1	1	1
year	98	1	1	1	1
week	99	1	1	1	1
month	99	1	1	1	1
bimonth	99	1	1	1	1
quarter	99	1	1	1	1

halfyear	99	1	1	1	1
year	99	1	1	1	1
week	100	1	1	1	1
month	100	1	1	1	1
bimonth	100	1	1	1	1
quarter	100	1	1	1	1
halfyear	100	1	1	1	1
year	100	1	1	1	1

Graphs showing what percent of unique values are dropped when excluding any value that is less than x% of the non-NA data (x ranges from 1% to 99%).

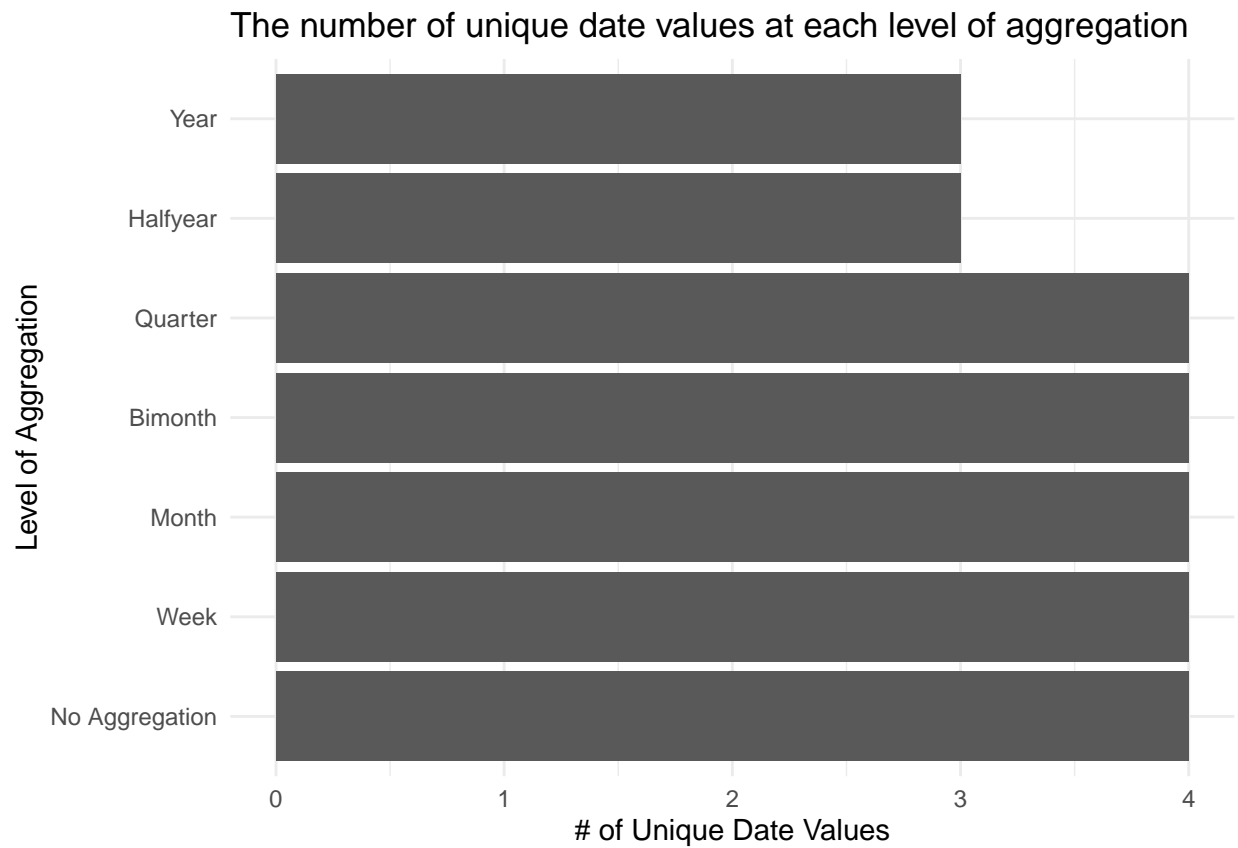
```
## [[1]]
## list()
##
## [[2]]
```





Graphs showing how many unique dates are in each Date column for the current data and at every level of aggregation.

```
## [[1]]  
## list()  
##  
## [[2]]
```



The number of unique date values at each level of aggregation

