

TIDYING DATA – WIDE TO LONG

table4a

country	1999	2000
A	0.7K	2K
B	37K	80K
C	212K	213K

→

country	year	cases
A	1999	0.7K
B	1999	37K
C	1999	212K
A	2000	2K
B	2000	80K
C	2000	213K

key value

TIDY RAINFALL DATA

station_code	city_name	year	month	day	rainfall	period	quality	lat	long	station_name
9151	Perth	2019	1	15	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	16	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	17	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	18	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	19	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	20	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	21	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	22	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	23	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	24	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	25	4	1	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	26	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	27	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	28	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	29	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	30	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	31	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	1	0	NA	Y	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	2	0	NA	Y	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	3	0	NA	Y	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	4	0	NA	Y	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	5	0	NA	Y	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	6	0	NA	Y	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	7	0.2	1	Y	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	8	0	NA	Y	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	9	0	NA	Y	-31.98	115.79	Subiaco Wastewater Treatment Plant

```
rain_tidy <- read_csv("rain_raw.csv") %>%
  janitor::clean_names() %>%
  gather(-bureau, key = year, value = rainfall)
```

TIDYING DATA – COMBINING MULTIPLE FILES

date	maximum temperature (degC)	site number	site name
		9021	PERTH AIRPORT
1910-01-01	26.7		
1910-01-02	27.0		
1910-01-03	27.5		
1910-01-04	24.0		
1910-01-05	24.8		
1910-01-06	24.4		
1910-01-07	25.3		
1910-01-08	28.0		
1910-01-09	32.6		
1910-01-10	35.9		
1910-01-11	33.9		
1910-01-12	38.6		
1910-01-13	35.1		
1910-01-14	32.9		
1910-01-15	30.3		
1910-01-16	25.8		
1910-01-17	25.7		
1910-01-18	25.4		
1910-01-19	26.1		
1910-01-20	32.6		
1910-01-21	36.0		
1910-01-22	27.0		

date	minimum temperature (degC)	site number	site name
		40842	BRISBANE AERO
1949-06-04	2.4		
1949-06-05	10.0		
1949-06-06	5.6		
1949-06-07	7.1		
1949-06-08	6.1		
1949-06-09	11.7		
1949-06-10	12.2		
1949-06-11	12.0		
1949-06-12	5.6		
1949-06-13	5.3		
1949-06-14	10.0		
1949-06-15	9.5		
1949-06-16	12.5		
1949-06-17	12.9		
1949-06-18	9.3		
1949-06-19	9.6		
1949-06-20	11.3		
1949-06-21	9.1		
1949-06-22	5.3		
1949-06-23	2.3		
1949-06-24	2.1		
1949-06-25	0.8		
1949-06-26	0.6		
1949-06-27	3.1		
1949-06-28	4.6		
1949-06-29	2.4		
1949-06-30	2.5		