DAILY TEMPERATURE TO YEARLY TEMPERATURE ANOMALIES

city_name	date	temperature	temp_type	site_name
PERTH	2019-05-31	26.3	max	PERTH AIRPORT
PERTH	2019-05-30	23.5	max	PERTH AIRPORT
PERTH	2019-05-29	23.6	max	PERTH AIRPORT
PERTH	2019-05-28	23.4	max	PERTH AIRPORT
PERTH	2019-05-27	22.2	max	PERTH AIRPORT
PERTH	2019-05-26	21.8	max	PERTH AIRPORT
PERTH	2019-05-25	21	max	PERTH AIRPORT
PERTH	2019-05-24	21.5	max	PERTH AIRPORT
PERTH	2019-05-23	21.9	max	PERTH AIRPORT
PERTH	2019-05-22	22.2	max	PERTH AIRPORT
PERTH	2019-05-21	21.6	max	PERTH AIRPORT
PERTH	2019-05-20	21.1	max	PERTH AIRPORT
PERTH	2019-05-19	21.2	max	PERTH AIRPORT
PERTH	2019-05-18	17.9	max	PERTH AIRPORT
PERTH	2019-05-17	17.1	max	PERTH AIRPORT
PERTH	2019-05-16	17.3	max	PERTH AIRPORT
PERTH	2019-05-15	29.7	max	PERTH AIRPORT
PERTH	2019-05-14	27.9	max	PERTH AIRPORT
PERTH	2019-05-13	22.6	max	PERTH AIRPORT
PERTH	2019-05-12	25.3	max	PERTH AIRPORT

year	ave_temp	temp_diff
1910	16.66820	-0.732844049
1911	16.41932	-0.981731102
1912	16.75197	-0.649077882
1913	15.46903	-1.932020259
1914	16.64176	-0.759288180
1915	16.08553	-1.315521056
1916	15.48748	-1.913568939
1917	15.11370	-2.287341282
1918	15.82258	-1.578466262
1919	16.54446	-0.856581395
1920	15.67254	-1.728507429
1921	16.54782	-0.853223239

SUBSETTING BAD DATA, CREATE NEW COLUMNS

SUBSET by Quality and Year

Create new column with full date

```
temp_clean <- temp_raw %>%
  filter(quality== "Y") %>%
  filter(year >= 1900) %>%
  filter(year < 2020) %>%
  mutate(date = ymd(paste(year,month,day,sep="-")))
```