

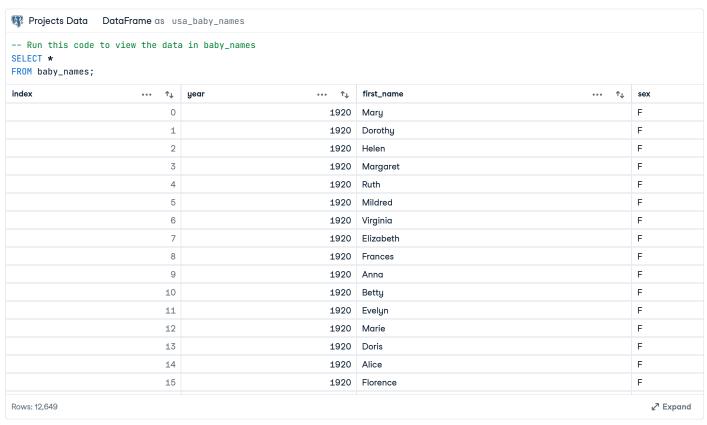


How have American baby name tastes changed since 1920? Which names have remained popular for over 100 years, and how do those names compare to more recent top baby names? These are considerations for many new parents, but the skills you'll practice while answering these queries are broadly applicable. After all, understanding trends and popularity is important for many businesses, too!

You'll be working with data provided by the United States Social Security Administration, which lists first names along with the number and sex of babies they were given to in each year. For processing speed purposes, the dataset is limited to first names which were given to over 5,000 American babies in a given year. The data spans 101 years, from 1920 through 2020.

The Data

baby_names		
column	type	description
year	int	year
first_name	varchar	first name
sex	varchar	sex of babies given [first_name
num	int	number of babies of sex given first_name in that year



```
Projects Data DataFrame as name_types
├-- List the overall top five names in alphabetical order and find out if each name is "Classic" or "Trendy."
-- "Classic" if it appears in 50 or more years, "Trendy" otherwise.
SELECT first_name, SUM(num) as sum,
        WHEN COUNT(year) > 50 THEN 'Classic'
        ELSE 'Trendy'
    END AS popularity_type
FROM baby_names
GROUP BY first_name
ORDER BY first_name
LIMIT 5;
index
                         ••• ↑↓ first_name
                                                                          ... ↑↓
                                                                                   sum
                                                                                                            ... ↑↓
                                                                                                                     popularity_type
                               0 Aaliyah
                                                                                                              15870 Trendy
                               1 Aaron
                                                                                                             530592
                                                                                                                     Classic
                                                                                                             338485
                               2 Abigail
                                                                                                                    Trendy
                                                                                                             497293 Trendy
                               3 Adam
                                                                                                             107433 Trendy
                               4 Addison
Rows: 5

∠ Expand
```

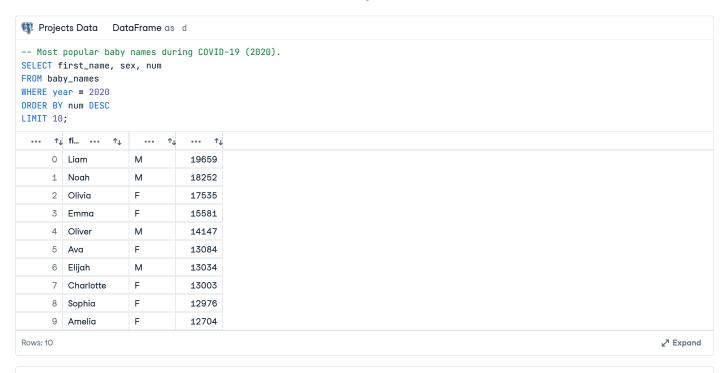
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Projects Data DataFrame as top_20
-- What were the top 20 male names overall, and how did the name Paul rank?
SELECT
    RANK() OVER (ORDER BY SUM(num) DESC) as name_rank,
    first_name,
    SUM(num) as sum
FROM baby_names
WHERE sex = 'M'
GROUP BY first_name
LIMIT 20;
                                      ... ↑↓
  ... ↑↓ n. ... ↑↓ firs... ... ↑↓
      0
                  1 James
                                     47481...
      1
                  2 John
                                     45107...
      2
                  3 Robert
                                     44951...
      3
                                     42788...
                  4 Michael
      4
                  5 William
                                     36144...
      5
                  6 David
                                     35714...
      6
                  7 Richard
                                     24148...
                                     23613...
      7
                  8 Joseph
                                     21668...
      8
                  9 Thomas
      9
                 10 Charles
                                     21123...
     10
                 11 Christopher
                                     20127...
     11
                 12 Daniel
                                     18242...
     12
                 13 Matthew
                                     15672...
                 14 Anthony
     13
                                     13443...
     14
                 15 Donald
                                     12802...
                 16 Mark
                                     12659...
     15
Rows: 20

∠ Expand
```

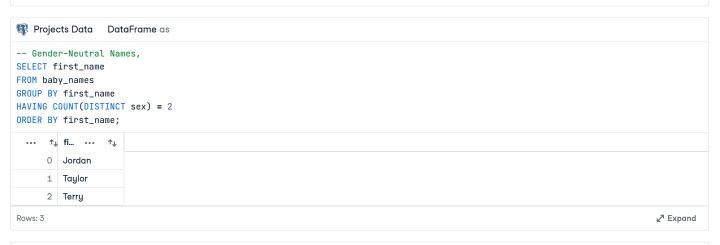
The most popular male name is James. The name Paul ranked 17th overall.

```
Projects Data DataFrame as a
-- Which female names appeared in both 1920 and 2020?
SELECT
    a.first_name,
    (a.num + b.num) AS total_occurrences
FROM baby_names a
JOIN baby_names b ON a.first_name = b.first_name
WHERE a.year = 1920 AND b.year = 2020 AND a.sex = 'F' AND b.sex = 'F'
  ··· ↑↓ fi... ··· ↑↓
                       total_occurre... \cdots \uparrow_{\downarrow}
      0 Emma
                                      20818
      1 Evelyn
                                      23283
                                      23125
      2 Elizabeth
      3 Eleanor
                                      14832
      4
         Grace
                                      12741
                                      12765
      5 Hazel
Rows: 6
                                                                                                                                   Expand
```

The names Emma, Evelyn, Elizabeth, Eleanor, Grace and Hazel appeared in both 1920 and 2020.



The most popular name in 2020 was Liam for males and Olivia for females.



Jordan, Taylor and Terry were used as gender-neutral names.