



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
num	int	number of babies of	sex given first_name in that year

 Projects Data DataFrame as usa_baby_names

```
-- Run this code to view the data in baby_names
SELECT *
FROM baby_names
LIMIT 5;
```

index	...	↑↓	year	...	↑↓	first_name	...	↑↓	sex	...	↑↓	num	...	↑↓	
		0			1920	Mary			F			70982			
		1			1920	Dorothy			F			36643			
		2			1920	Helen			F			35097			
		3			1920	Margaret			F			27994			
		4			1920	Ruth			F			26101			

Rows: 5

↗ Expand

 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."  
SELECT first_name,  
       COUNT(DISTINCT(year)) AS sum,  
       CASE WHEN COUNT(DISTINCT(year)) >= 50 THEN 'Classic'  
            ELSE 'Trendy' END AS popularity_type  
FROM baby_names  
GROUP BY first_name  
ORDER BY first_name ASC  
LIMIT 5;
```

index	...	↑↓	first_name	...	↑↓	sum	...	↑↓	popularity_type	...	↑↓	
		0	Aaliyah					3	Trendy			
		1	Aaron					51	Classic			
		2	Abigail					28	Trendy			
		3	Adam					46	Trendy			
		4	Addison					13	Trendy			

Rows: 5

 Expand


 Projects Data


DataFrame as top_20

```
-- What were the top 20 male names overall, and how did the name Paul rank?
WITH S as(
SELECT first_name,
      SUM(num) AS sum,
      RANK() OVER(ORDER BY SUM(num) DESC) AS name_rank
FROM baby_names
WHERE sex = 'M'
GROUP BY first_name
)
SELECT name_rank,
      first_name,
      sum
FROM S
ORDER BY name_rank
LIMIT 20;
```

index	...	↑↓	name_rank	...	↑↓	first_name	...	↑↓	sum	...	↑↓	
		0			1	James			4748138			
		1			2	John			4510721			
		2			3	Robert			4495199			
		3			4	Michael			4278824			
		4			5	William			3614424			
		5			6	David			3571498			
		6			7	Richard			2414838			
		7			8	Joseph			2361382			
		8			9	Thomas			2166802			
		9			10	Charles			2112352			
		10			11	Christopher			2012792			
		11			12	Daniel			1824274			
		12			13	Matthew			1567204			
		13			14	Anthony			1344352			
		14			15	Donald			1280236			
		15			16	Mark			1265910			

Rows: 20

 Expand

 Projects Data

DataFrame as a_names

```
-- a_names
SELECT
  first_name,
  SUM(num) AS total_occurrences
FROM
  baby_names
WHERE
  sex = 'F'
  AND year IN (1920, 2020)
GROUP BY
  first_name
HAVING
  COUNT(DISTINCT year) = 2
ORDER BY
  first_name;
```

index	...	↑↓	first_name	...	↑↓	total_occurrences	...	↑↓	
		0	Eleanor					14832	
		1	Elizabeth					23125	
		2	Emma					20818	
		3	Evelyn					23283	
		4	Grace					12741	
		5	Hazel					12765	

Rows: 6

Expand