



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 usa\_baby\_names

-- Run this code to view the data in baby\_names

SELECT \*  
FROM baby\_names;

index	...	↑↓	year	...	↑↓	first_name	...	↑↓	sex
		0			1920	Mary			F
		1			1920	Dorothy			F
		2			1920	Helen			F
		3			1920	Margaret			F
		4			1920	Ruth			F
		5			1920	Mildred			F
		6			1920	Virginia			F
		7			1920	Elizabeth			F
		8			1920	Frances			F
		9			1920	Anna			F
		10			1920	Betty			F
		11			1920	Evelyn			F
		12			1920	Marie			F
		13			1920	Doris			F
		14			1920	Alice			F
		15			1920	Florence			F

Rows: 12,649

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."  
-- "Classic" if it appears in 50 or more years, "Trendy" otherwise.

SELECT first\_name, SUM(num) as sum,  
CASE  
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
		2	Abigail					338485	Trendy
		3	Adam					497293	Trendy
		4	Addison					107433	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?
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		4		Michael		42788...		
	4		5		William		36144...		
	5		6		David		35714...		
	6		7		Richard		24148...		
	7		8		Joseph		23613...		
	8		9		Thomas		21668...		
	9		10		Charles		21123...		
	10		11		Christopher		20127...		
	11		12		Daniel		18242...		
	12		13		Matthew		15672...		
	13		14		Anthony		13443...		
	14		15		Donald		12802...		
	15		16		Mark		12659...		

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

Rows: 6

Expand

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

Projects Data

DataFrame as d

-- Most popular baby names during COVID-19 (2020).  
SELECT first\_name, sex, num  
FROM baby\_names  
WHERE year = 2020  
ORDER BY num DESC  
LIMIT 10;

	...	↑↓	fi...	...	↑↓	...	↑↓	...	↑↓
0			Liam			M			19659
1			Noah			M			18252
2			Olivia			F			17535
3			Emma			F			15581
4			Oliver			M			14147
5			Ava			F			13084
6			Elijah			M			13034
7			Charlotte			F			13003
8			Sophia			F			12976
9			Amelia			F			12704

Rows: 10

Expand

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

Projects Data

DataFrame as

-- Gender-Neutral Names,  
SELECT first\_name  
FROM baby\_names  
GROUP BY first\_name  
HAVING COUNT(DISTINCT sex) = 2  
ORDER BY first\_name;

	...	↑↓	fi...	...	↑↓
0			Jordan		
1			Taylor		
2			Terry		

Rows: 3

Expand

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