



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
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