

## PROJECT: EXPLORING TRENDS IN AMERICAN BABY NAMES



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

```
-- Run this code to view the data in baby_names
```

```
SELECT *
FROM baby_names
LIMIT 5;
```

...	↑↓	...	↑↓	fi...	...	↑↓	...	↑↓	...	↑↓
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



Projects Data

DataFrame as

```
-- Use this table for the answer to question 1:
```

```
-- List the overall top five names in alphabetical order and find out if each name is "Classic" or "Trendy."
```

```
SELECT
    first_name,
    SUM(num),
    CASE WHEN COUNT(*) > 10 THEN 'Over Ten'
         ELSE 'Not Over Ten' END AS popularity_type
FROM baby_names
GROUP BY first_name
ORDER BY first_name
LIMIT 5;
```

...	↑↓	fi...	...	↑↓	...	↑↓	popularity...	...	↑↓
0		Aaliyah			15870		Not Over Ten		
1		Aaron			530592		Over Ten		
2		Abigail			338485		Over Ten		
3		Adam			497293		Over Ten		
4		Addison			107433		Over Ten		

Rows: 5



Projects Data

DataFrame as

```
-- Use this table for the answer to question 2:
-- What were the top 20 male names overall, and how did the name Paul rank?
```

```
SELECT
  RANK() OVER(ORDER BY first_name DESC) AS name_rank,
  first_name,
  SUM(num)
FROM baby_names
WHERE sex = 'M' -- filter for male name
GROUP BY first_name
ORDER BY name_rank
LIMIT 20;
```

...	↑↓	n.	...	↑↓	fi...	...	↑↓	...	↑↓
	0			1	Zachary			483955	
	1			2	Xavier			51892	
	2			3	Wyatt			128168	
	3			4	Willie			274564	
	4			5	William			36144...	
	5			6	Wayne			211347	
	6			7	Warren			13290	
	7			8	Walter			378194	
	8			9	Vincent			23419	
	9			10	Tyler			548624	
	10			11	Troy			82294	
	11			12	Tristan			27212	
	12			13	Trevor			76138	
	13			14	Travis			218731	
	14			15	Tony			96417	
	15			16	Tom			5061	
	16			17	Todd			207137	

Rows: 20



Projects Data DataFrame as

```
-- Use this table for the answer to question 3:  
-- Which female names appeared in both 1920 and 2020?
```

```
SELECT DISTINCT  
  b1.first_name AS first_name,  
  (b1.count + b2.count) AS total_occurrences  
FROM baby_names AS b1  
INNER JOIN baby_names AS b2  
  ON b1.first_name = b2.first_name -- Match names, not years  
WHERE  
  b1.sex = 'F' -- Filter for female names  
  AND b2.sex = 'F' -- Filter for female names  
  AND b1.year = 1920 -- Names from 1920  
  AND b2.year = 2020 -- Names from 2020  
GROUP BY b1.first_name;
```

...	↑↓	fi...	...	↑↓	total_occurre...	...	↑↓
	0	Eleanor					2
	1	Elizabeth					2
	2	Emma					2
	3	Evelyn					2
	4	Grace					2
	5	Hazel					2

Rows: 6