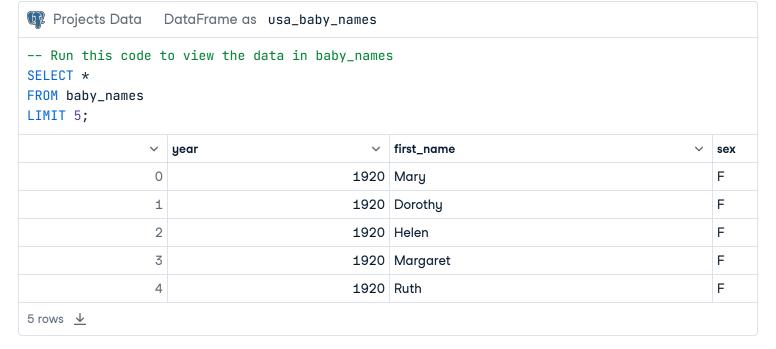


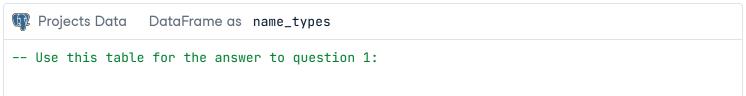
How have American baby name tastes changed since 1920? Which names have remained popular for over 100 years, and how do those names compare to more recent top baby names? These are considerations for many new parents, but the skills you'll practice while answering these queries are broadly applicable.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







~	first_name	sum	popul
0	Aaliyah	15870	Trend
1	Aaron	530592	Class
2	Abigail	338485	Trend
3	Adam	497293	Trend
4	Addison	107433	Trend

5 rows <u>↓</u>

```
Projects Data DataFrame as top_20
```

-- Use this table for the answer to question 2:

```
-- What were the top 20 male names overall, and how did the name Paul rank?
-- RANK names by the sum of babies who have ever had that name (descending), aliasing as name_rank
SELECT
RANK() OVER(ORDER BY SUM(num) DESC) AS name_rank,
```

```
RANK() OVER(ORDER BY SUM(num) DESC) AS name_rank,
    first_name, SUM(num)

FROM baby_names
-- Filter the data for results where sex equals 'M'

WHERE sex = 'M'
-- Group by first name, oder by rank, and limit to the top 20

GROUP BY first_name

ORDER BY name_rank

LIMIT 20;
```

~	name_rank	first_name
0	1	James
1	2	John
2	3	Robert
3	4	Michael
4	5	William
5	6	David
6	7	Richard
7	8	Joseph
8	9	Thomas
9	10	Charles
10	11	Christopher

```
Projects Data DataFrame as a
```

```
-- Use this table for the answer to question 3:
```

- -- Which female names appeared in both 1920 and 2020?
- -- Select first name and total occurrences

SELECT a.first\_name, (a.num + b.num) AS total\_occurrences

FROM baby\_names a

JOIN baby\_names b

-- Join on first name

ON a.first\_name = b.first\_name

-- Filter for the years 1920 and 2020 and sex equals 'F'

WHERE a.year = 1920 AND a.sex = 'F'

AND b.year = 2020 AND b.sex = 'F';

~	first_name v	total_occurrences
0	Emma	
1	Evelyn	
2	Elizabeth	
3	Eleanor	
4	Grace	
5	Hazel	

6 rows <u>↓</u>