



Staffelter Hof Winery is Germany's oldest business, established in 862 under the Carolingian dynasty. It has continued to serve customers through dramatic changes in Europe, such as the Holy Roman Empire, the Ottoman Empire, and both world wars. What characteristics enable a business to stand the test of time?

To help answer this question, BusinessFinancing.co.uk researched the oldest company still in business in almost every country and compiled the results into several CSV files. This dataset has been cleaned.

Having useful information in different files is a common problem. While it's better to keep different types of data separate for data storage, you'll want all the data in one place for analysis. You'll use joining and data manipulation to work with this data and better understand the world's oldest businesses.

The Data

`businesses` and `new_businesses`

Column	Description
<code>business</code>	Name of the business (varchar)
<code>year_founded</code>	Year the business was founded (int)
<code>category_code</code>	Code for the business category (varchar)
<code>country_code</code>	ISO 3166-1 three-letter country code (char)

`countries`

Column	Description
<code>country_code</code>	ISO 3166-1 three-letter country code (varchar)
<code>country</code>	Name of the country (varchar)
<code>continent</code>	Name of the continent the country exists in (varchar)

`categories`

Column	Description
<code>category_code</code>	Code for the business category (varchar)
<code>category</code>	Description of the business category (varchar)

```
-- What is the oldest business on each continent?
WITH continents AS
(
    SELECT
        c.continent as continent,
        c.country as country,
        b.business as business,
        b.year_founded as year_founded,
        RANK() OVER (PARTITION BY c.continent ORDER BY b.year_founded ASC) as rank
    FROM countries as c
    JOIN businesses as b
    ON c.country_code = b.country_code
)
SELECT
    continent,
    country,
    business,
    year_founded
FROM continents
WHERE rank = 1;
```

index	... ↑↓	continent	... ↑↓	country	... ↑↓	business	... ↑↓	year_founded	... ↑↓
0	Africa		Mauritius		Mauritius Post			1772	
1	Asia		Japan		Kongō Gumi			578	
2	Europe		Austria		St. Peter Stifts Kulinarium			803	
3	North America		Mexico		La Casa de Moneda de México			1534	
4	Oceania		Australia		Australia Post			1809	
5	South America		Peru		Casa Nacional de Moneda			1565	

Rows: 6

[Expand](#)

```
-- How many countries per continent lack data on the oldest businesses
-- Does including the `new_businesses` data change this?
WITH combined_businesses AS (
    SELECT country_code FROM businesses
    UNION
    SELECT country_code FROM new_businesses
),
missing_data AS (
    SELECT
        c.continent,
        c.country
    FROM countries c
    LEFT JOIN combined_businesses cb
        ON c.country_code = cb.country_code
    WHERE cb.country_code IS NULL
)
SELECT
    continent,
    COUNT(country) AS countries_without_businesses
FROM missing_data
GROUP BY continent
ORDER BY continent;
```

Index	continent	countries_without_businesses
0	Africa	3
1	Asia	7
2	Europe	2
3	North America	5
4	Oceania	10
5	South America	3

Rows: 6

Expand

```
-- Which business categories are best suited to last over the course of centuries?
WITH ranked_businesses AS (
  SELECT
    c.continent,
    cat.category,
    b.year_founded,
    ROW_NUMBER() OVER (
      PARTITION BY c.continent, cat.category
      ORDER BY b.year_founded ASC
    ) AS row_num
  FROM businesses b
  INNER JOIN categories cat ON b.category_code = cat.category_code
  INNER JOIN countries c ON b.country_code = c.country_code
)
SELECT
  continent,
  category,
  year_founded
FROM ranked_businesses
WHERE row_num = 1;
```

...	↑↓	contin...	...	↑↓	category	...	↑↓	year...	...	↑↓
0	Africa	Agriculture				1947				
1	Africa	Aviation & Transport				1854				
2	Africa	Banking & Finance				1892				
3	Africa	Distillers, Vintners, & Breweries				1933				
4	Africa	Energy				1968				
5	Africa	Food & Beverages				1878				
6	Africa	Manufacturing & Production				1820				
7	Africa	Media				1943				
8	Africa	Mining				1962				
9	Africa	Postal Service				1772				
10	Asia	Agriculture				1930				
11	Asia	Aviation & Transport				1858				
12	Asia	Banking & Finance				1830				
13	Asia	Cafés, Restaurants & Bars				1153				
14	Asia	Conglomerate				1841				
15	Asia	Construction				578				

Rows: 56

[Expand](#)