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

`countries`

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

`categories`

Column	Description
`category_code`	Code for the business category (varchar)
`category`	Description of the business category (varchar)

🐘 **Projects Data**   DataFrame **as** `oldest_business_continent`

```sql
-- 1. What is the oldest business on each continent?
SELECT
    c.continent,
    c.country,
    b.business,
    b.year_founded
FROM
    businesses b
    INNER JOIN countries c ON b.country_code = c.country_code
WHERE
    b.year_founded = (
        SELECT MIN(b2.year_founded)
        FROM businesses b2
        INNER JOIN countries c2 ON b2.country_code = c2.country_code
        WHERE c2.continent = c.continent
    );
```

index	continent	country	business	year_found...
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	South America	Peru	Casa Nacional de Moneda	1565
5	Oceania	Australia	Australia Post	1809

Rows: 6   ⤢ Expand

Write Python code or <u>**tell our AI what to do**</u>

🐘 Projects Data   DataFrame as `count_missing`

```sql
-- 2. How many countries per continent lack data on the oldest businesses
SELECT c.continent, COUNT(c.country_code) AS countries_without_businesses
FROM countries as c
LEFT JOIN
    (SELECT *
    FROM businesses
    UNION ALL
    SELECT *
    FROM new_businesses) b
    ON c.country_code=b.country_code
WHERE b.business IS NULL
GROUP BY c.continent

-- Does including the `new_businesses` data change this?
```

in…	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

🐘 **Projects Data**   **DataFrame** as `oldest_by_continent_category`

```sql
-- 3. Which business categories are best suited to last over the course of centuries?
SELECT continent, category, MIN(year_founded) AS year_founded
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
GROUP BY c.continent, cat.category
ORDER BY c.continent, cat.category
```

in…	continent	category	year_founded
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