OLDEST BUSINESS IN THE WORLD

Project description

An important part of business is planning for the future and ensuring that the business survives changing market conditions. Some businesses do this remarkably well and last for hundreds of years. In this project, you'll explore data from BusinessFinancing.co.uk on the world's oldest businesses: when were they founded, and which industries do they belong to?
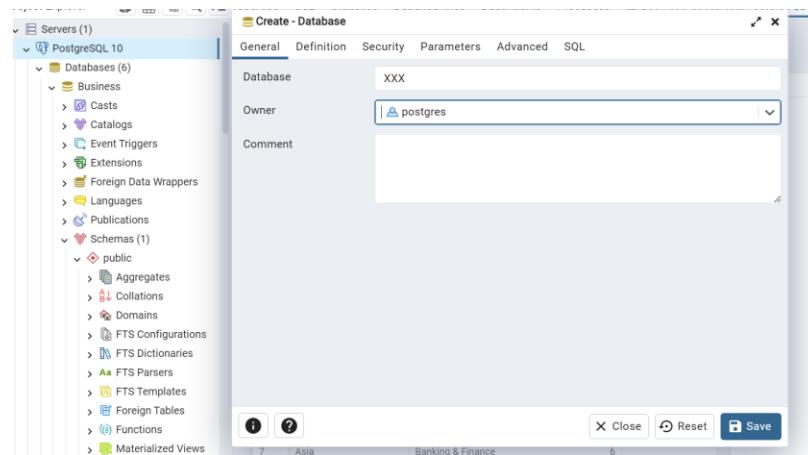
Image: St. Peter Stiftskeller, founded 803. Credit: Pakeha.

DATA PREPARETION

First step to perform is to upload the dataset to a SQL database. In this case I am using "PostgreSQL" to run this project.

This step is not necessary if you already have your data in a SQL server. In this case I wanted to do the project from scratch and follow all the steps from database creation, to creating the table to loading the data and finally querying the data to answer the questions.

- **Create database**
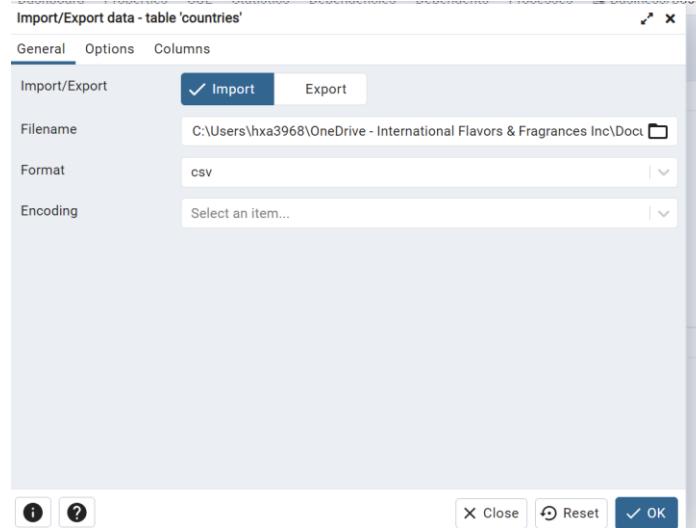
- **Create table**

- **Import csv file**

QUESTIONS TO ANSWERED

What are the oldest and newest founding years

- Oldest founding year

- Newest founding year

```
1  SELECT business,year_funded
2  FROM business
3  ORDER BY year_funded DESC
4  LIMIT 1
```

Data Output   Messages   Notifications

	business character varying (50) 🔒	year_funded 🔒 integer
1	Meridian Corporation	1999

How many businesses were founded before 1000?

```
SELECT COUNT(DISTINCT business) as NUMBER_OF_BUSNINESS
FROM business
WHERE year_funded<1000
```

Output   Messages   Notifications

number_of_busniness 🔒 bigint
6

Which businesses were founded before 1000?

```
22
23   SELECT DISTINCT business,year_funded
24   FROM business
25   WHERE year_funded<1000
26   ORDER BY year_funded
```

Data Output   Messages   Notifications

	business character varying (50) 🔒	year_funded integer 🔒
1	Kongō Gumi	578
2	St. Peter Stifts Kulinarium	803
3	Staffelter Hof Winery	862
4	Monnaie de Paris	864
5	The Royal Mint	886
6	Sean's Bar	900

Exploring the categories: Select the business name, founding year, and country code from businesses, and category from categories

```
27
28   SELECT year_funded,business, category
29   FROM business
30   LEFT JOIN categories
31   ON business.category_code=categories.category_code
32   WHERE year_funded<1000
33   ORDER BY year_funded
```

Data Output   Messages   Notifications

	year_funded integer 🔒	business character varying (50) 🔒	category character varying (50) 🔒
1	578	Kongō Gumi	Construction
2	803	St. Peter Stifts Kulinarium	Cafés, Restaurants & Bars
3	862	Staffelter Hof Winery	Distillers, Vintners, & Breweries
4	864	Monnaie de Paris	Manufacturing & Production
5	886	The Royal Mint	Manufacturing & Production
6	900	Sean's Bar	Cafés, Restaurants & Bars

Counting the categories: what other industries constitute the oldest companies around the world, and which industries are most common.

In [0]:

```
41  SELECT COUNT (category) AS INDUSTRIES,category
42  FROM business
43  LEFT JOIN  categories
44  ON business.category_code=categories.category_code
45  GROUP BY category
46  ORDER BY COUNT (category) DESC
47  LIMIT 10
```

Data Output   Messages   Notifications

	industries bigint	category character varying (50)
1	37	Banking & Finance
2	22	Distillers, Vintners, & Breweries
3	19	Aviation & Transport
4	16	Postal Service
5	15	Manufacturing & Production
6	7	Media
7	6	Agriculture
8	6	Food & Beverages
9	6	Cafés, Restaurants & Bars
10	4	Energy

Oldest business by continent: where in the world these really old businesses are?

Query   Query History

```
1  SELECT MIN(year_funded) AS oldest, continent
2  FROM business
3  LEFT JOIN countries
4  on business.country_code=countries.country_code
5  GROUP BY continent
6  ORDER BY oldest
7
```

Data Output   Messages   Notifications

	oldest integer	continent character varying (50)
1	578	Asia
2	803	Europe
3	1534	North America
4	1565	South America
5	1772	Africa
6	1809	Oceania

Joining everything for further analysis: join the three tables (business, categories, countries)

```
 8  SELECT business,year_funded,category,country,continent
 9  FROM business
10  INNER JOIN categories
11  ON business.category_code=categories.category_code
12  INNER JOIN countries
13  ON business.country_code=countries.country_code
```

Data Output | Messages | Notifications

business character varying (50)	year_funded integer	category character varying (50)	country character varying (50)	continent character varying (50)
1	Spinzar Cotton Company	1930	Agriculture	Afghanistan	Asia
2	ALBtelecom	1912	Telecommunications	Albania	Europe
3	Andbank	1930	Banking & Finance	Andorra	Europe
4	Liwa Chemicals	1939	Manufacturing & Production	United Arab Emirates	Asia
5	Bank of the Province of Buenos Aires	1822	Banking & Finance	Argentina	South America
6	Yerevan Ararat Brandy-Wine-Vodka Factory	1877	Distillers, Vintners, & Breweries	Armenia	Asia
7	Australia Post	1809	Postal Service	Australia	Oceania
8	St. Peter Stifts Kulinarium	803	Cafés, Restaurants & Bars	Austria	Europe
9	Azerbaijan Caspian Shipping Company	1858	Aviation & Transport	Azerbaijan	Asia

- **Counting categories by continent: which are the most common categories for the oldest businesses on each continent?**

In [0]:

Query | Query History

```
1  SELECT  continent, category, COUNT(*)as count
2  FROM business
3  INNER JOIN categories
4  ON business.category_code=categories.category_code
5  INNER JOIN countries
6  ON business.country_code=countries.country_code
7  GROUP BY  continent, category
8  ORDER BY count desc
9
10
11
12
```

Data Output | Messages | Notifications

continent character varying (50)	category character varying (50)	count bigint
1	Africa	Banking & Finance	17
2	Europe	Distillers, Vintners, & Breweries	12
3	Africa	Aviation & Transport	10
4	Africa	Postal Service	9
5	Europe	Manufacturing & Production	8
6	Asia	Aviation & Transport	7
7	Asia	Banking & Finance	6
8	North America	Distillers, Vintners, & Breweries	5

- **Filtering counts by continent and category: what are the categories with higher number than 5**

```
1  SELECT  continent, category, COUNT(*)as count
2  FROM business
3  INNER JOIN categories
4  ON business.category_code=categories.category_code
5  INNER JOIN countries
6  ON business.country_code=countries.country_code
7  GROUP BY  continent, category
8  HAVING COUNT(*)> 5
```

Query   Query History

Data Output   Messages   Notifications

	continent character varying (50)	category character varying (50)	count bigint
1	Africa	Aviation & Transport	10
2	Africa	Postal Service	9
3	Africa	Banking & Finance	17
4	Asia	Aviation & Transport	7
5	Asia	Banking & Finance	6
6	Europe	Distillers, Vintners, & Breweries	12
7	Europe	Manufacturing & Production	8