

WORLD BUSINESS DATA ANALYSIS

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-- Analysis of world business data
--oldest and newest founding year from the business table
SELECT MIN(year_founded) AS oldest_year_found, MAX(year_founded) AS newest_year_found
FROM [dbo].[businesses]

--How many businesses were found before year 1000
SELECT COUNT(*) AS count
FROM [dbo].[businesses]
WHERE year_founded < 1000

--Which businesses were founded before year 1000
SELECT *
FROM [dbo].[businesses]
WHERE year_founded < 1000
ORDER BY year_founded

--Businesses founded before the year 1000
SELECT
    business, year_founded, [dbo].[businesses].category_code, country_code, category
FROM
    [world oldest business].[dbo].[businesses]
INNER JOIN
    [world oldest business].[dbo].[categories]
ON
    businesses.category_code = [categories].category_code
WHERE year_founded < 1000
ORDER BY year_founded

--count of business category
SELECT category, COUNT(category) AS countN
FROM [world oldest business].[dbo].[businesses]
INNER JOIN [world oldest business].[dbo].[categories]
ON businesses.category_code = [categories].category_code
GROUP BY category
ORDER BY category

--Oldest business according to continent using CTE
WITH RankedBusinesses AS (
    SELECT
        continent,
        business,
        year_founded,
        ROW_NUMBER() OVER (PARTITION BY continent
            ORDER BY year_founded) AS row_num
    FROM
        dbo.businesses
    JOIN
        dbo.countries ON countries.country_code = businesses.country_code)
SELECT
    continent,
    business,
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        year_founded
FROM
    RankedBusinesses
WHERE
    row_num = 1;

--oldest industries(category)
SELECT
    MIN(year_founded) AS oldest_year_founded, category, business
FROM
    dbo.businesses
JOIN
    dbo.categories ON businesses.category_code = categories.category_code
    GROUP BY business, category
    ORDER BY MIN(year_founded)

--Count of industries
SELECT
    COUNT(category) AS category_n, category
FROM
    dbo.businesses
JOIN
    dbo.categories ON businesses.category_code = categories.category_code
    GROUP BY category
    ORDER BY category_n DESC

--Joining all three tables
SELECT
    year_founded, business, country, continent
FROM
    dbo.businesses
JOIN
    dbo.categories
ON
    businesses.category_code = categories.category_code
JOIN
    dbo.countries
ON
    businesses.country_code = countries.country_code

--Counting categories by continent
SELECT
    category, COUNT(business) AS business_n, continent
FROM
    dbo.businesses
JOIN
    dbo.categories
ON
    businesses.category_code = categories.category_code
JOIN
    dbo.countries
ON
    businesses.country_code = countries.country_code
GROUP BY continent, category
HAVING COUNT (business) > 5

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ORDER BY business_n DESC
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--Total years in business of each industry(category)
SELECT
    category, MIN(year_founded) AS oldest,
    YEAR(GETDATE()) - MIN (year_founded) AS total_years_in_business
FROM
    dbo.businesses
JOIN
    dbo.categories
ON
    businesses.category_code = categories.category_code
JOIN
    dbo.countries
ON
    businesses.country_code = countries.country_code
GROUP BY
    category
ORDER BY total_years_in_business DESC
```