

Project Instructions

Instructions

Your task is to first identify the three best-performing industries based on the number of new unicorns created over the last three years (2019, 2020, and 2021) combined.

From there, you will write a query to return the industry, the year, the number of companies in these industries that became unicorns each year in 2019, 2020, and 2021, along with the average valuation per industry per year, converted to billions of dollars and rounded to two decimal places!

As the firm is interested in trends for the top-performing industries, your results should be displayed by industry, then year in descending order.

The final output of your query will look like this:

Industry	Year	num_unicorns	average_valuation_billions
Industry 1	2021	--	--
Industry 1	2020	--	--
Industry 1	2019	--	--
Industry 2	2021	--	--
Industry 2	2020	--	--
Industry 2	2019	--	--
Industry 3	2021	--	--
Industry 3	2020	--	--
Industry 3	2019	--	--

Where `industry1`, `industry2`, and `industry3` are the three top-performing industries.

Project: Analyzing Unicorn Companies



Did you know that the average return from investing in stocks is 10% per year! But who wants to be average?!

You have been asked to support an investment firm by analyzing trends in high-growth companies. They are interested in understanding which industries are producing the highest valuations and the rate at which new high-value companies are emerging. Providing them with this information gives them a competitive insight as to industry trends and how they should structure their portfolio looking forward.

You have been given access to their `unicorns` database, which contains the following tables:

dates

Column	Description
<code>company_id</code>	A unique ID for the company.
<code>date_joined</code>	The date that the company became a unicorn.
<code>year_founded</code>	The year that the company was founded.

funding

Column	Description
<code>company_id</code>	A unique ID for the company.
<code>valuation</code>	Company value in US dollars.
<code>funding</code>	The amount of funding raised in US dollars.
<code>select_investors</code>	A list of key investors in the company.




industries

Column	Description
<code>company_id</code>	A unique ID for the company.
<code>industry</code>	The industry that the company operates in.


companies


Column	Description
company_id	A unique ID for the company.
company	The name of the company.
city	The city where the company is headquartered.
country	The country where the company is headquartered.
continent	The continent where the company is headquartered.





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Integration  Unicorn Companies Available as df   Browse tables

```
WITH top_industries AS (  
  SELECT i.industry,  
         COUNT(i.*)  
  FROM industries AS i  
  INNER JOIN dates AS d  
    ON i.company_id = d.company_id  
 WHERE EXTRACT(year FROM d.date_joined) in ('2019', '2020', '2021')  
  GROUP BY industry  
  ORDER BY count DESC  
  LIMIT 3  
)  
  
yearly_rankings AS (  
  SELECT COUNT(i.*) AS num_unicorns,  
         i.industry,  
         EXTRACT(year FROM d.date_joined) AS year,  
         AVG(f.valuation) AS average_valuation  
  FROM industries AS i  
  INNER JOIN dates AS d  
    ON i.company_id = d.company_id  
  INNER JOIN funding AS f  
    ON d.company_id = f.company_id  
  GROUP BY industry, year  
)  
  
SELECT industry,  
       year,  
       num_unicorns,  
       ROUND(AVG(average_valuation / 1000000000), 2) AS average_valuation_billions  
FROM yearly_rankings  
WHERE year in ('2019', '2020', '2021')  
      AND industry in (SELECT industry  
                       FROM top_industries)  
GROUP BY industry, num_unicorns, year, average_valuation  
ORDER BY industry, year DESC;
```

 Collapse

9 rows 

	industry 	year 	num_unicorns 	average_valuation_billions 
0	E-commerce & direct-to-consumer	2021	47	2.47
1	E-commerce & direct-to-consumer	2020	16	4
2	E-commerce & direct-to-consumer	2019	12	2.58
3	Fintech	2021	138	2.75
4	Fintech	2020	15	4.33
5	Fintech	2019	20	6.8
6	Internet software & services	2021	119	2.15
7	Internet software & services	2020	20	4.35
8	Internet software & services	2019	13	4.23

9 rows 