



Did you know that the average return from investing in stocks is **10% per year** [🔗](#) (not accounting for inflation)? 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
<code>company_id</code>	A unique ID for the company.
<code>company</code>	The name of the company.
<code>city</code>	The city where the company is headquartered.
<code>country</code>	The country where the company is headquartered.
<code>continent</code>	The continent where the company is headquartered.

```
-- Unicorn companies in year 2019 - 2021
with recent_unicorns as (
  select
    c.company_id,
    i.industry,
    f.valuation,
    EXTRACT(year from date_joined) as year
  from companies as c
  join dates as d
  on c.company_id = d.company_id
  join industries as i
  on c.company_id = i.company_id
  join funding as f
  on c.company_id = f.company_id
  where EXTRACT(year from date_joined) in (2019, 2020, 2021)
),

-- Top 3 industries based on valuations
top_3 as (
  select
    industry,
    sum(valuation) as sum_valuation
  from recent_unicorns
  group by industry
  order by sum_valuation desc
  limit 3
)

-- Display the amount of new unicorn companies for the top 3 industries as well as the average valuations for year 2019 - 2021
select
  r.industry,
  r.year,
  count(r.company_id) as num_unicorns,
  ROUND(AVG(r.valuation) / 1000000000.0, 2) as average_valuation_billions
from recent_unicorns r
join top_3 t on r.industry = t.industry
group by r.industry, r.year
order by r.year desc, num_unicorns desc;
```

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