



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
company_id	A unique ID for the company.
date_joined	The date that the company became a unicorn.
year_founded	The year that the company was founded.

#### funding

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

#### industries

Column	Description
company_id	A unique ID for the company.
industry	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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In [ ]: DROP TABLE IF EXISTS top_industries
;

SELECT
    industry,
    count(*) AS industry_count
INTO top_industries
FROM industries AS i
LEFT JOIN dates AS d
    ON i.company_id = d.company_id
WHERE EXTRACT(YEAR FROM d.date_joined) BETWEEN 2019 AND 2021
GROUP BY industry
ORDER BY industry_count DESC
LIMIT 3
;

DROP TABLE IF EXISTS company_valuations
;

SELECT
    i.industry,
    EXTRACT(YEAR FROM d.date_joined) AS year,
    f.valuation,
    t.industry_count
INTO company_valuations
FROM funding AS f
JOIN industries AS i
    ON i.company_id = f.company_id
JOIN dates AS d
    ON i.company_id = d.company_id
INNER JOIN top_industries AS t
    ON i.industry = t.industry
WHERE EXTRACT(YEAR FROM d.date_joined) BETWEEN 2019 AND 2021
;

SELECT
    industry,
    year,
    count(*) AS num_unicorns,
    ROUND(AVG(valuation) / 1E9, 2) AS average_valuation_billions
FROM company_valuations
GROUP BY industry, industry_count, year
ORDER BY industry, year DESC
;

```

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Out[ ]:

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	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	4.00
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	6.80
6	Internet software & services	2021	119	2.15

	industry	year	num_unicorns	average_valuation_billions
<b>7</b>	Internet software & services	2020	20	4.35
<b>8</b>	Internet software & services	2019	13	4.23