

PROJECT: ANALYZING UNICORN COMPANIES





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
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.


index	...	↑↓	table_name	...	↑↓	column_name	...	↑↓	data_type	...
0			companies			company_id			integer	
1			companies			company			character varying	
2			companies			city			character varying	
3			companies			country			character varying	
4			companies			continent			character varying	
5			dates			company_id			integer	
6			dates			date_joined			date	
7			dates			year_founded			integer	
8			funding			company_id			integer	
9			funding			valuation			bigint	
10			funding			funding			bigint	
11			funding			select_investors			character varying	
12			industries			company_id			integer	
13			industries			industry			character varying	


Rows: 14 ↗ Expand

...	↑↓	c...	...	↑↓	date_joined	...	↑↓	year...	...	↑↓
0				189	2017-06-24T00:00:00.000			1919		
1				848	2021-06-01T00:00:00.000			2019		
2				556	2022-02-15T00:00:00.000			2011		
3				999	2021-11-17T00:00:00.000			2020		
4				396	2021-10-21T00:00:00.000			2021		

Rows: 5 ↗ Expand

...	↑↓	c...	...	↑↓	v...	...	↑↓	f.	...	↑↓	select_investors	...	↑↓	
0			189		4000000000			0			EQT Partners			
1			848		1000000000			100000000			Dragonfly Captial, Qiming Venture Partners, ...			
2			556		2000000000			100000000			Blackstone, Bessemer Venture Partners			
3			999		1000000000			100000000			Goldman Sachs Asset Management, 3L			
4			396		2000000000			100000000			Insight Partners, Softbank Group, Connect Ve...			
Rows: 5														↗ Expand

...	↑↓	c...	...	↑↓	industry	...	↑↓
0			189		Health		
1			848		Fintech		
2			556		Internet software & services		
3			999		Internet software & services		
4			396		Fintech		
Rows: 5							 Expand

...	↑↓	c...	...	↑↓	company	...	↑↓	city	...	↑↓	country	...	↑↓	contin...	...	↑↓	
0			189		Otto Bock HealthCare			Duderstadt			Germany			Europe			
1			848		Matrixport						Singapore			Asia			
2			556		Cloudinary			Santa Clara			United States			North America			
3			999		PLACE			Bellingham			United States			North America			
4			396		candy.com			New York			United States			North America			
Rows: 5																	 Expand

# The output

Your query should return a table in the following format:

industry	year	num_unicorns	average_valuation_billions
industry1	2021	---	---
industry2	2020	---	---
industry3	2019	---	---
industry1	2021	---	---
industry2	2020	---	---
industry3	2019	---	---
industry1	2021	---	---
industry2	2020	---	---
industry3	2019	---	---

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

...	↑↓	industry	...	↑↓	number_of_com...	...	↑↓
0		Fintech			173		
1		Internet software & services			152		
2		E-commerce & direct-to-consumer			75		
Rows: 3							↗ Expand

...	↑↓	industry	...	↑↓	...	↑↓	num...	...	↑↓	avg_v...	...	↑↓	
0		Artificial intelligence			2019		14			4500000000			
1		Auto & transportation			2019		6			4166666666.67			
2		Consumer & retail			2019		3			3666666666.67			
3		Cybersecurity			2019		4			2250000000			
4		Data management & analytics			2019		4			11500000000			
5		E-commerce & direct-to-consumer			2019		12			2583333333.33			
6		Edtech			2019		1			1000000000			
7		Fintech			2019		20			6800000000			
8		Health			2019		3			3333333333.33			
9		Internet software & services			2019		13			4230769230.77			
10		Mobile & telecommunications			2019		4			2000000000			
11		Other			2019		9			2888888888.89			
12		Supply chain, logistics, & delivery			2019		8			3000000000			
13		Travel			2019		3			4000000000			
14		Artificial intelligence			2020		3			4000000000			
15		Auto & transportation			2020		5			3000000000			
Rows: 43													↗ Expand

...	↑↓	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			
Rows: 9													↗ Expand