

# Trends in Startups

## Analyze Data with SQL

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### **Problem Statement:**

Howdy! It's your first day as a TechCrunch reporter. Your first task is to write an article on the rising trends in the startup world.

To get you started with your research, your boss emailed you file that contains a table called startups.

It is a portfolio of some of the biggest names in the industry.

Write queries with aggregate functions to retrieve some interesting insights about these companies.

## Task needs to be achieved:

1. Getting started, take a look at the startups table: What are the column names?
2. Calculate the total number of companies in the table.
3. We want to know the total value of all companies in this table.
4. What is the highest amount raised by a startup?
5. Edit the query so that it returns the maximum amount of money raised, during 'Seed' stage.
6. In what year was the oldest company on the list founded?
7. Return the average valuation.
8. Return the average valuation, in each category.
9. Return the name of each category with the total number of companies that belong to it.
10. Filter the result to only include categories that have more than three companies in them. What are the most competitive markets?
11. What is the average size of a startup in each location?
12. What is the average size of a startup in each location, with average sizes above 500?

## 1. Getting started, take a look at the startups table: What are the column names?

The table has the following column names:

name  
location  
category  
employees  
raised  
valuation  
founded  
stage  
ceo  
info

```
select *
from startups;
```

[illegible]

**2. Calculate the total number of companies in the table.**

```
select count(*)  
from startups;
```

(No column name)		
70		

**3. We want to know the total value of all companies in this table.**

```
select sum(valuation)
from startups;
```

(No column name)			
974455790000.00			

**4. What is the highest amount raised by a startup?**

```
select max(raised)
from startups;
```

(No column name)		
11500000000		

**5. Edit the query so that it returns the maximum amount of money raised, during 'Seed' stage.**

```
select max(raised)
from startups
where stage = 'Seed';
```

(No column name)		
1800000		



**6. In what year was the oldest company on the list founded?**

```
select min(founded) as year  
from startups;
```

year		
1994		

## 7. Return the average valuation.

```
select avg(valuation)
from startups;
```

(No column name)			
15974685082			

## 8. Return the average valuation, in each category.

```
select category, round(avg(valuation),  
2) as "avg valuation"  
from startups  
group by category  
order by [avg valuation] desc;
```

category	avg valuation	
Health Care	380490000000	
Enterprise	38508333333	
Real Estate	20000000000	
Travel	12501250000	
Augmented Reality	8000000000	
Security	6333333333	
Technology	3100000000	
Venture Capital	3000000000	
Education	2023800000	
Customer Service	640000000	
SaaS	401000000	
Gambling	322000000	
Nanotechnology	150000000	
Cloud Computing	95000000	
Social	82425833.33	
Logistics	70000000	
Fitness	67500000	
E-commerce	60250000	
Big Data Analytics	15000000	
Mobile	9600000	
Algorithms	7600000	
null	4290000	
Fashion	3200000	
Virtual Reality	2150000	
Games	1600000	
Data Analytics	NULL	

**9. Return the name of each category with the total number of companies that belong to it.**

```
select category, count(*)as count
from startups
group by category;
```

category	count
Algorithms	1
Augmented Reality	1
Big Data Analytics	1
Cloud Computing	2
Customer Service	1
Data Analytics	1
E-commerce	3
Education	5
Enterprise	3
Fashion	2
Fitness	3
Gambling	1
Games	2
Health Care	2
Logistics	1
Mobile	10
Nanotechnology	1
null	3
Real Estate	1
SaaS	2
Security	3
Social	12
Technology	3
Travel	2

**10. Filter the result to only include categories that have more than three companies in them. What are the most competitive markets?**

```
select category, count(*) as count
from startups
group by category
having count(*) > 3
order by 2 desc;
```

[illegible]

## 11. What is the average size of a startup in each location?

```
select location, avg(employees) as [Avg  
no of employees]  
from startups  
group by location  
order by 2 desc;
```

location	Avg no of employees	
San Francisco	1920.4	
Silicon Valley	1804.6	
New York	702.75	
Brooklyn	502.6666667	
Fort Lauderdale	500	
New Delhi	250	
Palo Alto	125.8333333	
Omaha	65	
Paris	30	
Minneapolis	20	
Virginia Beach	15	
Denver	12	
Chicago	12	
Seattle	9.666666667	
Washington DC	8	
Los Angeles	6.833333333	
Savannah	6	
Scranton	6	
Long Island	5	
Atlanta	3	
Boulder	3	
Columbus	2	
Irvine	2	

**12. What is the average size of a startup in each location, with average sizes above 500?**

```
select location, avg(employees) as [Avg  
no of employees]  
from startups  
group by location  
having avg(employees) > 500  
order by 2 desc;
```

[illegible]