Analyzing Global Layoffs Using SQL

Data Cleaning

- -- Remove Duplicate
- -- Standardize Data
- -- Null values
- -- Remove unnecessary columns or rows

Data After Cleaning

select * from layoffs_Staging2;

	company	location	industry	total_laid_off	percentage_laid_off	date	stage	country	funds_raised_millions
•	Atlassian	Sydney	Other	500	0.05	2023-03-06	Post-IPO	Australia	210
	The RealReal	SF Bay Area	Retail	230	0.07	2023-02-16	Post-IPO	United States	356
	Smartsheet	Seattle	Other	85	0.03	2023-02-16	Post-IPO	United States	152
	Wix	Tel Aviv	Marketing	370	0.06	2023-02-15	Post-IPO	Israel	58
	ServiceTitan	Los Angeles	Sales	221	0.08	2023-02-15	Series G	United States	1100
	Neon	Sao Paulo	Finance	210	0.09	2023-02-15	Series D	Brazil	720

Exploratory Data Analysis

Find the maximum number of layoffs and the highest layoff percentage

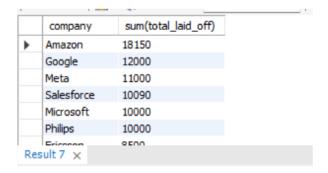
Retrieve layoffs where 100% of employees were laid off, sorted by total layoffs (descending)

```
select total_laid_off,
    percentage_laid_off from layoffs_Staging2
    where percentage_laid_off = 1
    order by 1 desc;
```

	total_laid_off	percentage_laid_off
•	2434	1
	1000	1
	669	1
	500	1
	300	1
	250	1
lay	offs_Staging26	×

Total layoffs per company, sorted by highest layoffs

```
select company, sum(total_laid_off)
from layoffs_Staging2
group by 1
order by 2 desc;
```



Find the earliest and latest layoff dates in the dataset

```
select min(`date`), max(`date`)
from layoffs_Staging2;
```

	min(`date`)	max(`date`)
•	2020-03-11	2023-03-06

Total layoffs per industry, sorted by highest layoffs

```
select industry, sum(total_laid_off)
from layoffs_Staging2
group by 1
order by 2 desc;
                                Export: Wrap Cell Content: IA
industry
             sum(total_laid_off)
Consumer
             45182
  Retail 43613
  Other
            36289
  Transportation 33748
  Finance
             28344
  Healthcare 25953
Result 10 ×
```

Total layoffs per country, sorted by highest layoffs

```
select country, sum(total_laid_off)

from layoffs_Staging2

group by 1

order by 2 desc;

country sum(total_laid_off)

United States 256559

India 35993

Netherlands 17220

Sweden 11264

Brazil 10391

Germany 8701

Linited Vincedom 6200

Result 11 ×
```

Total layoffs per year, sorted by year (descending)

Total layoffs per startup stage per year, sorted by year (descending)

```
select stage, year(`date`), sum(total_laid_off)
from layoffs_Staging2
group by 1, 2
order by 2 desc;
Export: Wrap Cell Content: TA
        year(`date`) sum(total_laid_off)
   stage
Post-IPO 2023
                 98692
  Series G 2023 291
  Series D 2023
Series C 2023
                  1801
                2711
  Series F 2023
                  1096
  Series A 2023 413
Result 13 ×
                  2102
```

Rolling total layoffs progression by month

Re	sult Grid	Filter Rows:	Export:	Wrap Cell Content:	<u>‡</u> A
	month	total_rid_off	cumulative_sum_by_months		
•	2020-03	9628	9628		
	2020-04	26710	36338		
	2020-05	25804	62142		
	2020-06	7627	69769		
	2020-07	7112	76881		
	2020-08	1969	78850		
Res	ult 14 ×	600	70.450		

Top 5 companies with the highest layoffs per year

	company	year	total_rid_off	ranking			
•	Uber	2020	7525	1			
	Booking.com	2020	4375	2			
	Groupon	2020	2800	3			
	Swiggy	2020	2250	4			
	Airbnb	2020	1900	5			
	Bytedance	2021	3600	1			
	Katerra	2021	2434	2			
	Zillow	2021	2000	3			
	Instacart	2021	1877	4			
	WhiteHat Jr	2021	1800	5			
	Meta	2022	11000	1			
	sult 15 ×	2022	10150	-			

Top 5 industries with the highest layoffs per month in each year

	industry	year_month	total_rid_off	ranking
•	Travel	2020-03	1603	1
	Real Estate	2020-03	1375	2
	Transportation	2020-03	916	3
	Consumer	2020-03	840	4
	Fitness	2020-03	801	5
	Retail	2020-04	4241	1
	Food	2020-04	3812	2
	Consumer	2020-04	3269	3
	Finance	2020-04	2809	4
	Travel	2020-04	2405	5
	Transportation	2020-05	10340	1
	- I	2022 25	2012	^

Result 16 🗶