

Global Layoffs

SQL Project

Part- 2



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Moving To Analysis

Building on the cleaned dataset prepared in Part 1, this section further analyzes the layoff trend across the globe by industry, country, and time periods. The objective here is to extract out useful insights that will inform the trends and patterns for workforce reduction.

```
rename table copy_global_layoff to layoffs_analysis;
```

"Just renaming the table for my convenience."

```
select * from layoffs_analysis;
```

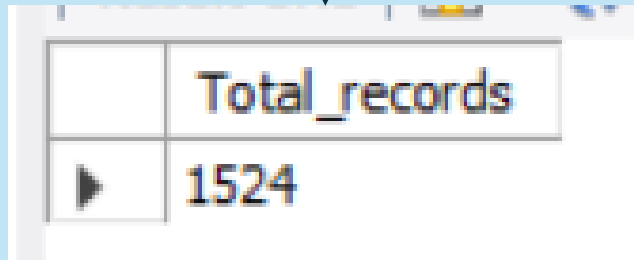
	Company	Location_HQ	Industry	Laid_Off	date	Funds_Raised	Stage	Country	Percentage
►	8Open	Dublin	Marketing	9	2022-11-17	35	Series A	Ireland	0.09
	#Paid	Toronto	Marketing	19	2023-01-27	21	Series B	Canada	0.17
	10X Genomics	SF Bay Area	Healthcare	100	2022-08-04	242	Post-IPO	United States	0.08
	1stdibs	New York City	Retail	70	2020-04-02	253	Series D	United States	0.17
	23andMe	SF Bay Area	Healthcare	71	2023-08-08	1100	Post-IPO	United States	0.11
	23andMe	SF Bay Area	Healthcare	75	2023-06-09	1100	Post-IPO	United States	0.09
	2TM	Sao Paulo	Crypto	100	2022-09-01	250	Unknown	Brazil	0.15
	2TM	Sao Paulo	Crypto	90	2022-06-01	250	Unknown	Brazil	0.12
	54gene	Washington D.C.	Healthcare	95	2022-08-29	44	Series B	United States	0.3
	6sense	SF Bay Area	Sales	150	2022-10-12	426	Series E	United States	0.1
	7shifts	Saskatoon	Food	30	2023-09-15	131	Series C	Canada	0.07
	7Shifts	Saskatoon	Food	68	2024-01-11	131	Series C	Canada	0.19
	8x8	SF Bay Area	Support	155	2023-01-18	253	Post-IPO	United States	0.07
	8x8	SF Bay Area	Support	200	2022-10-04	253	Post-IPO	United States	0.09
	99	Sao Paulo	Transport...	75	2022-09-20	244	Acquired	Brazil	0.02
	Abra	SF Bay Area	Crypto	12	2022-06-30	106	Series C	United States	0.05
	Absci	Portland	Healthcare	30	2023-09-05	238	Post-IPO	United States	0.15
	Acast	Stockholm	Media	70	2022-09-15	126	Post-IPO	Sweden	0.15
	Acko	Mumbai	Finance	45	2020-04-01	143	Unknown	India	0.09
	Ada	Toronto	Support	78	2022-09-20	190	Series C	Canada	0.16
	layoffs_analysis	Toronto	Support	78	2022-09-20	190	Series C	Canada	0.16

"With the data cleaned and standardized, we're ready to begin our analysis."

Start with basic EDA

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

After cleaning total records
present in the dataset

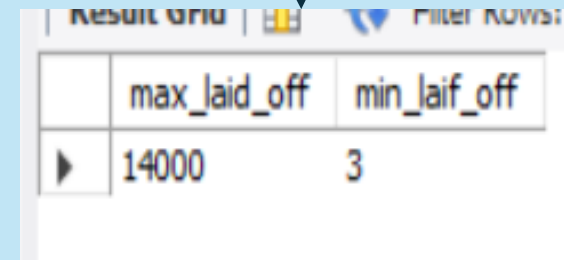


A screenshot of a database query result. It shows a single row with two columns: 'Total_records' and '1524'. The value '1524' is highlighted in blue.

Total_records
1524

```
select max(laid_off) max_laid_off, min(laid_off) min_laif_off  
from layoffs_analysis;
```

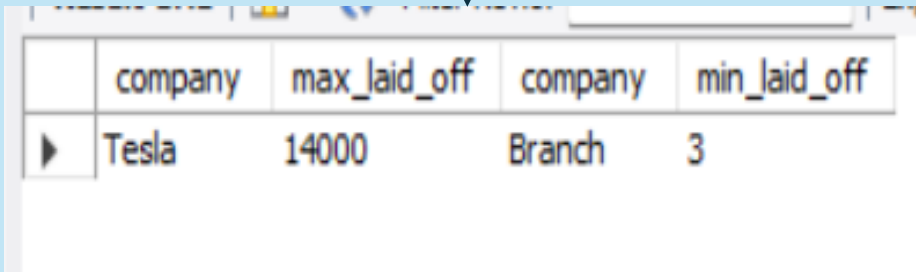
Maximum & Minimum
Layoff in on go



A screenshot of a database query result. It shows a single row with two columns: 'max_laid_off' and 'min_laif_off'. The values are '14000' and '3' respectively. The value '3' is highlighted in blue.

max_laid_off	min_laif_off
14000	3

```
select max_company.company as company,max_company.max_laid_off,  
min_company.company as company,min_company.min_laid_off  
from (select company,max(laid_off) max_laid_off  
from layoffs_analysis  
group by company  
order by max_laid_off desc  
limit 1) as max_company  
join  
(select company,min(laid_off) min_laid_off  
from layoffs_analysis  
group by company  
order by min_laid_off  
limit 1) as min_company  
on 1 = 1;
```



	company	max_laid_off	company	min_laid_off
▶	Tesla	14000	Branch	3

Name of the companies who laid off maximum & minimum in one go.

```
select company, sum(laid_off) total_laid_off
from layoffs_analysis
group by company
order by total_laid_off desc;
```

Company wise total laid off

	company	total_laid_off
▶	Amazon	18000
	Tesla	14000
	Google	12000
	Meta	11000
	SAP	11000
	Salesforce	10700
	Microsoft	10000
	Ericsson	8500
	Cisco	8350
	Flink	8100
	Uber	7525
	Micron	7200
	PayPal	4500
	Peloton	4484
	Wayfair	4270
	Carvana	4000
	Better.com	3900
	Twitter	3900
	Groupon	3300
	Shopify	3300

Till now Amazon
has layoffs the
most

```
select industry, sum(laid_off) total_laid_off
from layoffs_analysis
group by industry
order by total_laid_off desc;
```

Industry wise total laid off

	industry	total_laid_off
▶	Transportation	49834
	Retail	49454
	Other	47341
	Consumer	44626
	Finance	31545
	Food	30922
	Real Estate	14831
	Healthcare	14677
	Sales	14346
	Travel	13313
	Infrastructure	11165
	Hardware	10920
	Crypto	10581
	Education	9126
	Fitness	8728
	Marketing	7806
	Security	7392
	HR	6674
	Media	6571
	Data	4518

Transportation
industry appears
to be heavily
impacted by
layoffs

```
select country, sum(laid_off) total_laid_off
from layoffs_analysis
group by country
order by total_laid_off desc;
```

Country wise total laid off

country	total_laid_off
United States	299385
India	27537
Germany	22793
Sweden	12442
United Kingdom	11888
Canada	8312
Brazil	6929
Singapore	5090
Israel	4515
Indonesia	2721
Australia	2614
France	1040
New Zealand	1025
United Arab E...	995
Kenya	982
Nigeria	970
China	755
Hong Kong	730
Ireland	416
Russia	400

Huge workforce reduction in USA till now

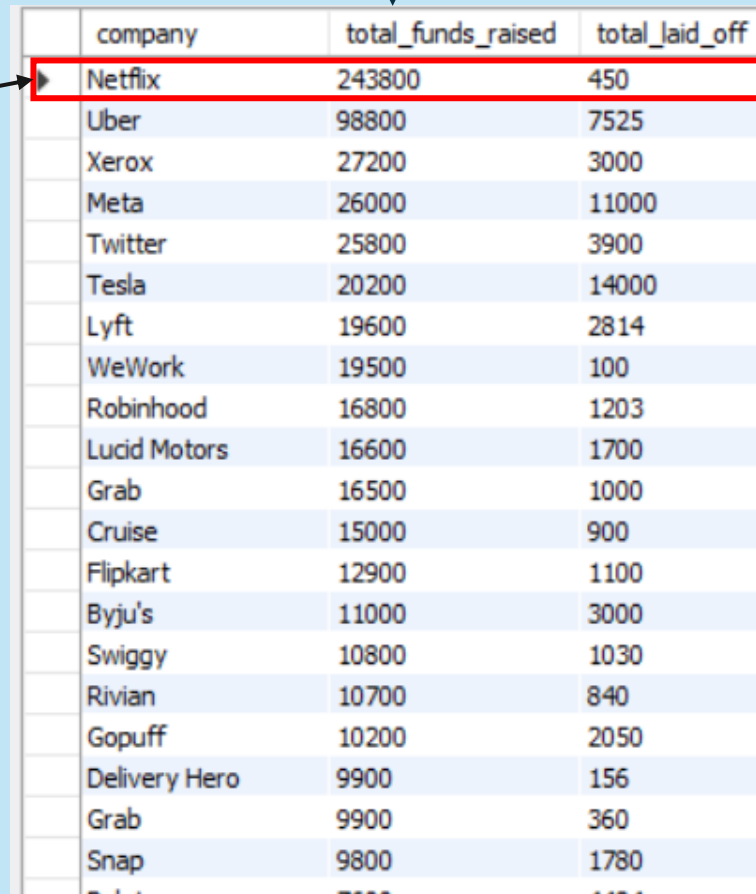
```
select stage, sum(laid_off) total_laid_off
from layoffs_analysis
group by stage
order by total_laid_off desc;
```

Company stage wise total laid off

stage	total_laid_off
Post-IPO	244064
Unknown	29901
Acquired	26599
Series B	23767
Series D	19940
Series C	16984
Series E	15342
Series F	9070
Private Equity	7982
Series H	6781
Series A	4403
Series G	4352
Series J	2350
Series I	2055
Seed	1253
Subsidiary	714

Post-IPO are experiencing higher layoffs

```
select company,sum(Funds_Raised) total_funds_raised,sum(laid_off) total_laid_off
from layoffs_analysis
group by company,Funds_Raised
order by total_Funds_Raised desc;
```



company	total_funds_raised	total_laid_off
Netflix	243800	450
Uber	98800	7525
Xerox	27200	3000
Meta	26000	11000
Twitter	25800	3900
Tesla	20200	14000
Lyft	19600	2814
WeWork	19500	100
Robinhood	16800	1203
Lucid Motors	16600	1700
Grab	16500	1000
Cruise	15000	900
Flipkart	12900	1100
Byju's	11000	3000
Swiggy	10800	1030
Rivian	10700	840
Gopuff	10200	2050
Delivery Hero	9900	156
Grab	9900	360
Snap	9800	1780

Netflix raised the highest amount of funds, but it had a relatively low number of layoffs compared to others.

Comparing company's funds raised and their total layoffs


```
select year(date) Years, sum(Laid_Off) total_laid_off  
from layoffs_analysis  
group by years  
order by years;
```

Layoffs over the years

	Years	total_laid_off
▶	2020	60960
	2021	6490
	2022	126502
	2023	158363
	2024	63242

In 2023, layoffs were at
their highest

```
with cte as (select substring(date,1,7) Months, sum(laid_off) Total_laid_off
from layoffs_analysis
group by months
order by months)
select months,total_laid_off,sum(total_laid_off)
over(order by months) rolling_total
from cte;
```

End of 2020

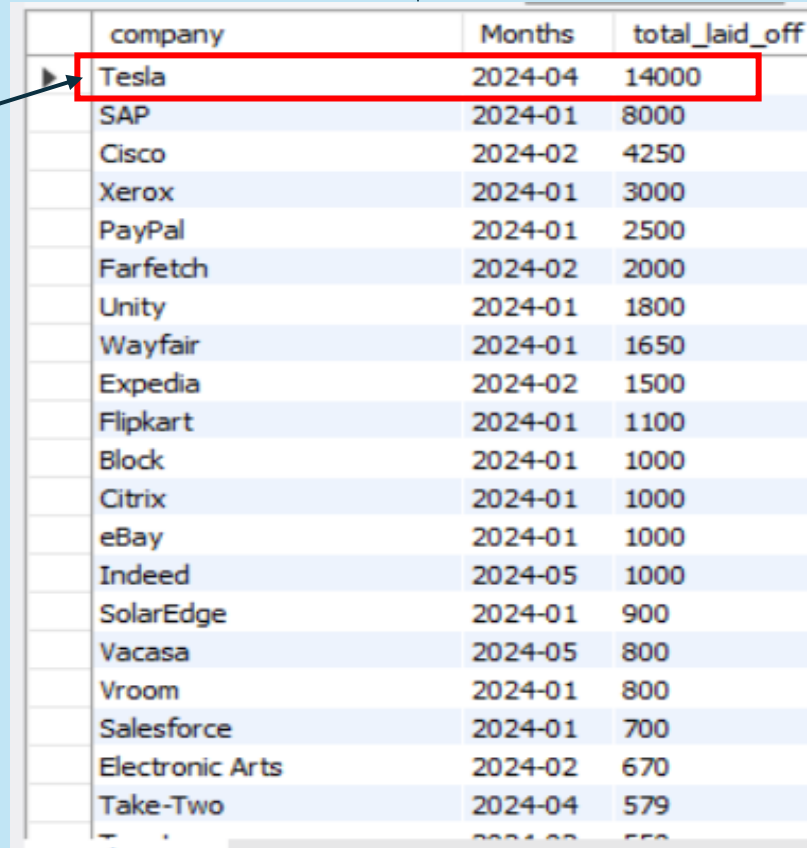
End of 2021

	months	total_laid_off	rolling_total
▶	2020-03	7241	7241
	2020-04	21064	28305
	2020-05	21404	49709
	2020-06	6442	56151
	2020-07	2198	58349
	2020-08	1853	60202
	2020-09	339	60541
	2020-10	110	60651
	2020-11	189	60840
	2020-12	120	60960
	2021-01	516	61476
	2021-02	332	61808
	2021-04	160	61968
	2021-06	2434	64402
	2021-08	37	64439
	2021-09	41	64480
	2021-11	2070	66550
	2021-12	900	67450
	2022-01	80	67530
	2022-02	3385	70915
	2022-03	4511	75426

Rolling total layoffs by month

```
select company,substring(date,1,7) Months, sum(Laid_Off) total_laid_off
from layoffs_analysis
group by company,months
having months >= '2024-01'
order by total_laid_off desc;
```

Tesla is having maximum layoffs in 2024



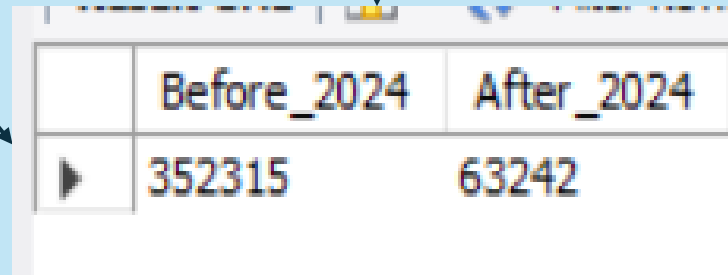
company	Months	total_laid_off
Tesla	2024-04	14000
SAP	2024-01	8000
Cisco	2024-02	4250
Xerox	2024-01	3000
PayPal	2024-01	2500
Farfetch	2024-02	2000
Unity	2024-01	1800
Wayfair	2024-01	1650
Expedia	2024-02	1500
Flipkart	2024-01	1100
Block	2024-01	1000
Citrix	2024-01	1000
eBay	2024-01	1000
Indeed	2024-05	1000
SolarEdge	2024-01	900
Vacasa	2024-05	800
Vroom	2024-01	800
Salesforce	2024-01	700
Electronic Arts	2024-02	670
Take-Two	2024-04	579

Company wise Total layoffs in 2024(Current year)

```
• select
  sum(case
    when date < '2024-01-01' then laid_off
    else 0
  end) as Before_2024,

  sum(case
    when date >= '2024-01-01' then laid_off
    else 0
  end) as After_2024
from layoffs_analysis;
```

Total layoffs before & after
1st Jan 2024. And the
layoffs after 1st Jan 2024 is
till 5th of June 2024 as by
dataset.



	Before_2024	After_2024
▶	352315	63242

```

with company_year as (select company, year(date) years, sum(laid_off) total_laid_off
from layoffs_analysis
group by company,years),
company_year_rank as
(select *,dense_rank () over(partition by years order by total_laid_off desc) as ranking
from company_year)
select * from company_year_rank
where ranking <=5;

```



	company	years	total_laid_off	ranking
►	Uber	2020	7525	1
	Groupon	2020	2800	2
	Airbnb	2020	1900	3
	PaisaBazaar	2020	1500	4
	Swiggy	2020	1450	5
	Katerra	2021	2434	1
	Zillow	2021	2000	2
	Better.com	2021	900	3
	Dropbox	2021	315	4
	Bounce	2021	200	5
	Meta	2022	11000	1
	Amazon	2022	10000	2
	Cisco	2022	4100	3
	Peloton	2022	4084	4
	Carvana	2022	4000	5
	Google	2023	12000	1
	Microsoft	2023	10000	2
	Ericsson	2023	8500	3
	Flink	2023	8100	4
	Amazon	2023	8000	5

In every year Top 5 companies who layoff maximum

Findings

- This analysis meets our objective of identifying layoff trends by showing that the U.S. and Post-IPO companies are the most affected.
- Our analysis indicated that even with high fundraising, companies like Meta, Tesla, Uber, Twitter, and others still had major layoffs.
- Layoffs were highest in 2023, with the transportation industry highly affected.
- Also found that Tesla had the maximum number of layoffs in a single day in 2024.

That's all for this Project
Thank You