

# WORLD COMPANIES LAYOFFS ANALYSIS

USING SQL

By- Mayuri D

## Original Dataset In Excel

	A	B	C	D	E	F	G	H	I	J
1	company	location	industry	total_laid_off	percentage_laid_off	date	stage	country	funds_raised_millions	
2	Atlassian	Sydney	Other	500	0.05	03-06-2023	Post-IPO	Australia	210	
3	SiriusXM	New York City	Media	475	0.08	03-06-2023	Post-IPO	United States	525	
4	Alerzo	Ibadan	Retail	400	NULL	03-06-2023	Series B	Nigeria	16	
5	UpGrad	Mumbai	Education	120	NULL	03-06-2023	Unknown	India	631	
6	Loft	Sao Paulo	Real Estate	340	0.15	03-03-2023	Unknown	Brazil	788	
7	Embark Trucks	SF Bay Area	Transportation	230	0.7	03-03-2023	Post-IPO	United States	317	
8	Lendi	Sydney	Real Estate	100	NULL	03-03-2023	Unknown	Australia	59	
9	UserTesting	SF Bay Area	Marketing	63	NULL	03-03-2023	Acquired	United States	152	
10	Airbnb	SF Bay Area		30	NULL	03-03-2023	Post-IPO	United States	6400	
11	Accolade	Seattle	Healthcare	NULL	NULL	03-03-2023	Post-IPO	United States	458	
12	Indigo	Boston	Other	NULL	NULL	03-03-2023	Series F	United States.	1200	
13	Zscaler	SF Bay Area	Security	177	0.03	03-02-2023	Post-IPO	United States	148	
14	MasterClass	SF Bay Area	Education	79	NULL	03-02-2023	Series E	United States	461	
15	Ambev Tech	Blumenau	Food	50	NULL	03-02-2023	Acquired	Brazil	NULL	
16	Fittr	Pune	Fitness	30	0.11	03-02-2023	Series A	India	13	
17	CNET	SF Bay Area	Media	12	0.1	03-02-2023	Acquired	United States	20	
18	Flipkart	Bengaluru	Retail	NULL	NULL	03-02-2023	Acquired	India	12900	
19	Kandela	Los Angeles	Consumer	NULL	1	03-02-2023	Acquired	United States	NULL	
20	Truckstop.com	Boise	Logistics	NULL	NULL	03-02-2023	Acquired	United States	NULL	
21	Thoughtworks	Chicago	Other	500	0.04	03-01-2023	Post-IPO	United States	748	
22	iFood	Sao Paulo	Food	355	0.06	03-01-2023	Subsidiary	Brazil	2100	
23	Color Health	SF Bay Area	Healthcare	300	NULL	03-01-2023	Series E	United States	482	
24	Waymo	SF Bay Area	Transportation	209	0.08	03-01-2023	Subsidiary	United States	5500	
25	PayFit	Paris	HR	200	0.2	03-01-2023	Series E	France	495	
26	Yellow.ai	SF Bay Area	Support	200	NULL	03-01-2023	Series C	United States	102	
27	Sonder	SF Bay Area	Travel	100	0.14	03-01-2023	Post-IPO	United States	839	
28	Postmates	San Francisco	Food Delivery	100	0.5	03-01-2023	Post-IPO	United States	75	

## Dataset In MYSQL After Cleaning

Result Grid   Filter Rows:   Export:   Wrap Cell Content:									
	company	location	industry	total_laid_off	percentage_laid_off	date	stage	country	funds_raised_millions
►	Included Health	SF Bay Area	Healthcare	NULL	0.06	2022-07-25	Series E	United States	272
	&Open	Dublin	Marketing	9	0.09	2022-11-17	Series A	Ireland	35
	#Paid	Toronto	Marketing	19	0.17	2023-01-27	Series B	Canada	21
	100 Thieves	Los Angeles	Consumer	12	NULL	2022-07-13	Series C	United States	120
	10X Genomics	SF Bay Area	Healthcare	100	0.08	2022-08-04	Post-IPO	United States	242
	1stdibs	New York City	Retail	70	0.17	2020-04-02	Series D	United States	253
	2TM	Sao Paulo	Crypto	90	0.12	2022-06-01	Unknown	Brazil	250
	2TM	Sao Paulo	Crypto	100	0.15	2022-09-01	Unknown	Brazil	250
	2U	Washington D.C.	Education	NULL	0.2	2022-07-28	Post-IPO	United States	426
	54gene	Washington D.C.	Healthcare	95	0.3	2022-08-29	Series B	United States	44
	5B Solar	Sydney	Energy	NULL	0.25	2022-06-03	Series A	Australia	12
	6sense	SF Bay Area	Sales	150	0.1	2022-10-12	Series E	United States	426
	80 Acres Farms	Cincinnati	Food	NULL	0.1	2023-01-18	Unknown	United States	275
	8x8	SF Bay Area	Support	155	0.07	2023-01-18	Post-IPO	United States	253
	8x8	SF Bay Area	Support	200	0.09	2022-10-04	Post-IPO	United States	253
	98point6	Seattle	Healthcare	NULL	0.1	2022-07-21	Series E	United States	247
	99	Sao Paulo	Transportation	75	0.02	2022-09-20	Acquired	Brazil	244
	Abra	SF Bay Area	Crypto	12	0.05	2022-06-30	Series C	United States	106
	Absci	Vancouver	Healthcare	40	NULL	2022-08-09	Post-IPO	United States	237
	Acast	Stockholm	Media	70	0.15	2022-09-15	Post-IPO	Sweden	126
	Acko	Mumbai	Finance	45	0.09	2020-04-01	Unknown	India	143

**Let's Do Some Exploratory  
Data Analysis**

4

5 • **SELECT** MAX(total\_laid\_off)

6 **FROM** layoffs\_staging2;

Result Grid



Filter Rows:

Export:



Wrap C

	MAX(total_laid_off)
▶	12000



```
9      -- how big these layoffs were in %
10 •   SELECT MAX(percentage_laid_off), MIN(percentage_laid_off)
11      FROM layoffs_staging2
12      WHERE percentage_laid_off IS NOT NULL;
13      -- (1 = 100%)
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	MAX(percentage_laid_off)	MIN(percentage_laid_off)
▶ 1	1	0

```

15  -- Which companies had 100 percent of the company laid off
16  •  SELECT *
17    FROM layoffs_staging2
18    WHERE percentage_laid_off = 1;
19    -- these are mostly startups

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	company	location	industry	total_laid_off	percentage_laid_off	date	stage	country	funds_raised_millions
▶	Ahead	SF Bay Area	Healthcare	44	1	2022-04-14	Unknown	United States	9
	Airlift	Lahore	Logistics	NULL	1	2022-07-12	Series B	Pakistan	109
	Airy Rooms	Jakarta	Travel	NULL	1	2020-05-07	Unknown	Indonesia	NULL
	Amplero	Seattle	Marketing	17	1	2020-03-29	Series B	United States	25
	Arch Oncology	Brisbane	Healthcare	NULL	1	2023-01-13	Series C	United States	155
	Assure	Salt Lake City	Finance	NULL	1	2022-11-23	Seed	United States	2
	Atsu	Seattle	Infrastructure	6	1	2020-04-10	Unknown	United States	1
	Aura Financial	SF Bay Area	Finance	NULL	1	2021-01-11	Unknown	United States	584
	Automatic	SF Bay Area	Transportation	NULL	1	2020-05-01	Acquired	United States	24
	Awok	Dubai	Retail	NULL	1	2020-09-02	Series A	United Arab Emirates	30
	BeyondMinds	Tel Aviv	Data	65	1	2022-05-23	Series A	Israel	16
	Bitfront	SF Bay Area	Crypto	NULL	1	2022-11-29	Unknown	United States	NULL

layoffs\_staging2 14 x

```

21 -- if order by funds_raised_millions we can see how big some of these companies were
22 • SELECT *
23 FROM layoffs_staging2
24 WHERE percentage_laid_off = 1
25 ORDER BY funds_raised_millions DESC;

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	company	location	industry	total_laid_off	percentage_laid_off	date	stage	country	funds_raised_millions
▶	Britishvolt	London	Transportation	206	1	2023-01-17	Unknown	United Kingdom	2400
	Quibi	Los Angeles	Media	NULL	1	2020-10-21	Private Equity	United States	1800
	Deliveroo Australia	Melbourne	Food	120	1	2022-11-15	Post-IPO	Australia	1700
	Katerra	SF Bay Area	Construction	2434	1	2021-06-01	Unknown	United States	1600
	BlockFi	New York City	Crypto	NULL	1	2022-11-28	Series E	United States	1000
	Aura Financial	SF Bay Area	Finance	NULL	1	2021-01-11	Unknown	United States	584
	Openpay	Melbourne	Finance	83	1	2023-02-07	Post-IPO	Australia	299
	Pollen	London	Marketing	NULL	1	2022-08-10	Series C	United Kingdom	238
	Simple Feast	Copenhagen	Food	150	1	2022-09-07	Unknown	Denmark	173
	Arch Oncology	Brisbane	Healthcare	NULL	1	2023-01-13	Series C	United States	155
	Motif Investing	SF Bay Area	Finance	NULL	1	2020-04-18	Series E	United States	126
	CommonBond	New York City	Finance	NULL	1	2022-09-09	Series D	United States	125



```
29      -- top 5 Companies with the biggest Layoff on a single day
30 •    SELECT company, total_laid_off
31      FROM layoffs_staging
32      ORDER BY 2 DESC
33      LIMIT 5;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



Fetch rows:

	company	total_laid_off
▶	Google	12000
	Meta	11000
	Amazon	10000
	Microsoft	10000
	Ericsson	8500

```

35      -- Companies with the most Total Layoffs
36 •    SELECT company, SUM(total_laid_off)
37      FROM layoffs_staging2
38      GROUP BY company
39      ORDER BY 2 DESC
40      LIMIT 5;

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



Fetch rows:

	company	SUM(total_laid_off)
▶	Amazon	18150
	Google	12000
	Meta	11000
	Salesforce	10090
	Microsoft	10000

```
42  -- most total layoffs by location
43  • SELECT location, SUM(total_laid_off)
44      FROM layoffs_staging2
45      GROUP BY location
46      ORDER BY 2 DESC
47      LIMIT 5;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	location	SUM(total_laid_off)
►	SF Bay Area	125631
	Seattle	34743
	New York City	29364
	Bengaluru	21787
	Amsterdam	17140

```
49      -- total laid off by industry
50 •    SELECT industry, SUM(total_laid_off)
51      FROM layoffs_staging2
52      GROUP BY industry
53      ORDER BY 2 DESC;
```

Result Grid



Filter Rows:

Export:



Wrap C

	industry	SUM(total_laid_off)
►	Consumer	45182
	Retail	43613
	Other	36289
	Transportation	33748
	Finance	28344
	Healthcare	25953
	Food	22855
	Real Estate	17565
	Travel	17159
	Hardware	13828
	Education	13338
	Sales	13216

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```
55      -- year wise laid off
56 •    SELECT YEAR(date), SUM(total_laid_off)
57      FROM layoffs_staging2
58      WHERE YEAR(date) IS NOT NULL
59      GROUP BY YEAR(date)
60      ORDER BY 1 ASC;
```

Result Grid



Filter Rows:

Export:



Wrap C

	YEAR(date)	SUM(total_laid_off)
►	2020	80998
	2021	15823
	2022	160661
	2023	125677

```
62  -- total laid off of top 3 companies by year wise
63 • WITH Company_Year AS
64 (
65     SELECT company, YEAR(date) AS years, SUM(total_laid_off) AS total_laid_off
66     FROM layoffs_staging2
67     GROUP BY company, YEAR(date)
68 ),
69 Company_Year_Rank AS (
70     SELECT company, years, total_laid_off, DENSE_RANK() OVER (PARTITION BY years ORDER BY total_laid_off DESC) AS ranking
71     FROM Company_Year
72 )
73 SELECT company, years, total_laid_off, ranking
74 FROM Company_Year_Rank
75 WHERE ranking <= 3
76 AND years IS NOT NULL
77 ORDER BY years ASC, total_laid_off DESC;
```

Result Grid		Filter Rows:		Export:	Wrap Cell	Con
	company	years	total_laid_off	ranking		
►	Uber	2020	7525	1		
	Booking.com	2020	4375	2		
	Groupon	2020	2800	3		
	Bytedance	2021	3600	1		
	Katerra	2021	2434	2		
	Zillow	2021	2000	3		
	Meta	2022	11000	1		
	Amazon	2022	10150	2		
	Cisco	2022	4100	3		
	Google	2023	12000	1		
	Microsoft	2023	10000	2		
	Ericsson	2023	8500	3		

```
78
79  -- Rolling Total of Layoffs Per Month
80 • WITH DATE_CTE AS
81 (
82  SELECT SUBSTRING(date,1,7) as dates, SUM(total_laid_off) AS total_laid_off
83  FROM layoffs_staging2
84  GROUP BY dates
85  ORDER BY dates ASC
86 )
87  SELECT dates, SUM(total_laid_off) OVER (ORDER BY dates ASC) as rolling_total_layoffs
88  FROM DATE_CTE
89  ORDER BY dates ASC;
90
```



	dates	rolling_total_layoffs
▶	NULL	500
	2020-03	10128
	2020-04	36838
	2020-05	62642
	2020-06	70269
	2020-07	77381
	2020-08	79350
	2020-09	79959
	2020-10	80409
	2020-11	80646
	2020-12	81498
	2021-01	88311
	2021-02	89179
	2021-03	89226
	2021-04	89487
	2021-06	91921
	2021-07	92001
	2021-08	93868
	2021-09	94029
	2021-10	94051
	2021-11	96121

Result 23

	dates	rolling_total_layoffs
	2021-08	93868
	2021-09	94029
	2021-10	94051
	2021-11	96121
	2021-12	97321
	2022-01	97831
	2022-02	101516
	2022-03	107230
	2022-04	111358
	2022-05	124243
	2022-06	141637
	2022-07	157860
	2022-08	170915
	2022-09	176796
	2022-10	194202
	2022-11	247653
	2022-12	257982
	2023-01	342696
	2023-02	379189
	2023-03	383659

# THANK YOU

By- Mayuri D