

# PROJECT EXPLORATORY DATA ANALYSIS

1. MAXIMUM total laid off AND MAXIMUM percentage laid off

```
-- MAXIMUM total_laid_off AND MAXIMUM percentage_laid_off

SELECT MAX(total_laid_off), MAX(percentage_laid_off)
FROM layoffs_stagging2;
```

Result Grid | | Filter Rows:  | Export: | Wrap Cell Content:



	MAX(total_laid_off)	MAX(percentage_laid_off)
▶	12000	1


## 2. Companies with 100% layoffs


-- Companies with 100% layoffs

```
SELECT *  
FROM layoffs_stagging2  
WHERE percentage_laid_off = 1  
ORDER BY total_laid_off DESC;
```

Result Grid

  Filter Rows:

Export: 

Wrap Cell Content: 

	company	location	industry	total_laid_off	percentage_laid_off	date	stage	country	funds_raised_millions
▶	Katerra	SF Bay Area	Construction	2434	1	2021-06-01	Unknown	United States	1600
	Butler Hospitality	New York City	Food	1000	1	2022-07-08	Series B	United States	50
	Deliv	SF Bay Area	Retail	669	1	2020-05-13	Series C	United States	80
	Jump	New York City	Transportation	500	1	2020-05-07	Acquired	United States	11
	SEND	Sydney	Food	300	1	2022-05-04	Seed	Australia	3
	HOOQ	Singapore	Consumer	250	1	2020-03-27	Unknown	Singapore	95
	Stoqo	Jakarta	Food	250	1	2020-04-25	Series A	Indonesia	NULL
	Stay Alfred	Spokane	Travel	221	1	2020-05-20	Series B	United States	62
	Britishvolt	London	Transportation	206	1	2023-01-17	Unknown	United Kingdom	2400
	Planety	Berlin	Other	200	1	2022-11-04	Acquired	Germany	5
	Crejo.Fun	Bengaluru	Education	170	1	2022-06-30	Seed	India	3
	Bridge Connector	Nashville	Healthcare	154	1	2020-11-17	Series B	United States	45
	Simple Feast	Copenhagen	Food	150	150	2022-09-07	Unknown	Denmark	173
	Reali	SF Bay Area	Real Estate	140	1	2022-08-24	Series B	United States	117
	Blueprint	Denver	Education	137	1	2020-05-26	Acquired	United States	108
	Deliveroo Australia	Melbourne	Food	120	1	2022-11-15	Post-IPO	Australia	1700
	Soluto	Tel Aviv	Support	120	1	2022-07-24	Acquired	Israel	18
	SummerBio	SF Bay Area	Healthcare	101	1	2022-06-20	Unknown	United States	7
	EMX Digital	New York City	Marketing	100	1	2023-02-13	Unknown	United States	NULL
	Fifth Season	Pittsburgh	Food	100	1	2022-10-28	Series B	United States	35
	Kitty Hawk	SF Bay Area	Aerospace	100	1	2022-09-21	Unknown	United States	1
	Udayy	Gurugram	Education	100	1	2022-06-01	Seed	India	2
	Buy.com / Rakuten	SF Bay Area	Retail	87	1	2020-07-30	Acquired	United States	42

layoffs\_stagging25 x

### 3. Companies with 100% layoffs despite having maximum funds

```
-- Companies with 100% layoffs despite having maximum funds_raised_millions
```

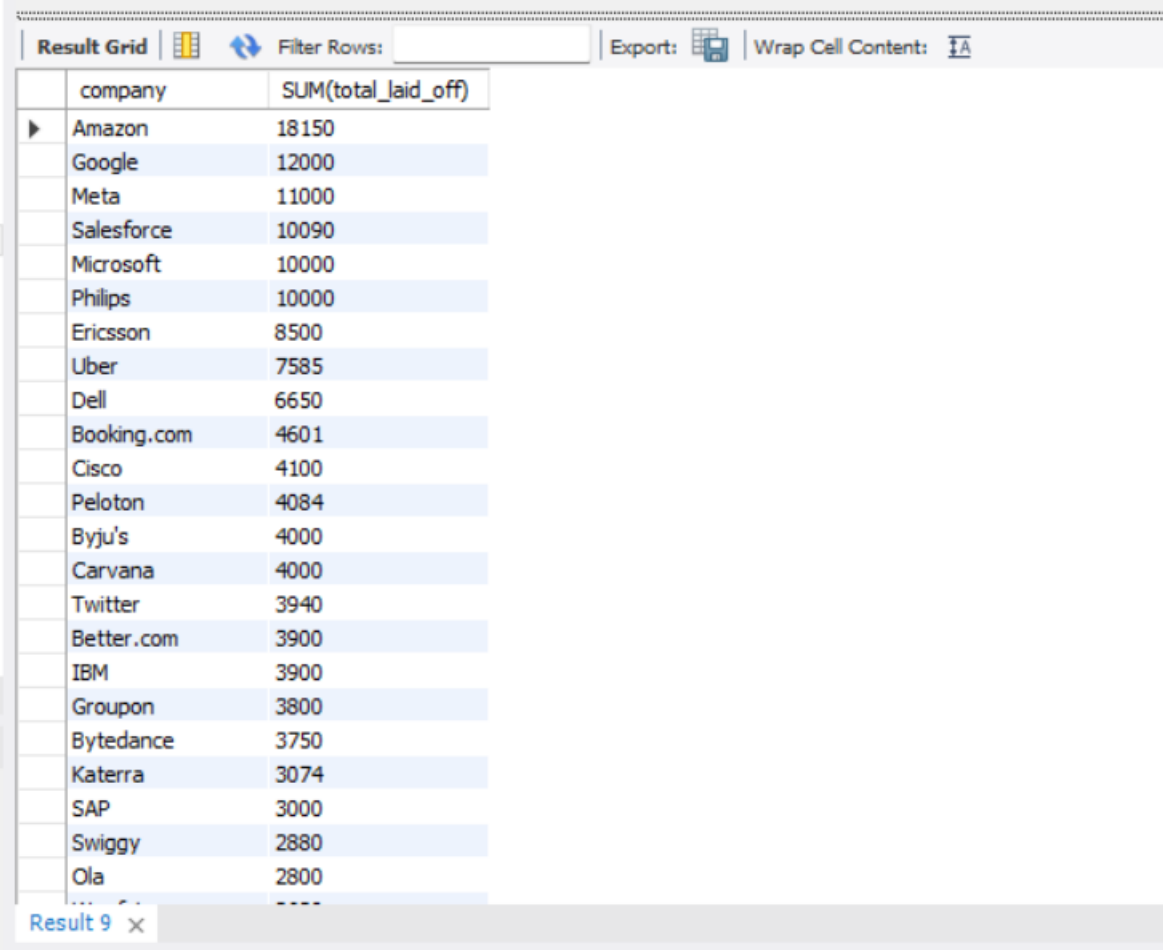
```
SELECT *  
FROM layoffs_stagging2  
WHERE percentage_laid_off = 1  
ORDER BY funds_raised_millions DESC;
```

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
	Fast	SF Bay Area	Finance	NULL	1	2022-04-05	Series B	United States	124
	Reali	SF Bay Area	Real Estate	140	1	2022-08-24	Series B	United States	117
	The Wing	New York City	Real Estate	NULL	1	2022-08-31	Series C	United States	117
	Airlift	Lahore	Logistics	NULL	1	2022-07-12	Series B	Pakistan	109
	Blueprint	Denver	Education	137	1	2020-05-26	Acquired	United States	108
	Medly	New York City	Healthcare	NULL	1	2023-02-08	Series C	United States	100
	HOOQ	Singapore	Consumer	250	1	2020-03-27	Unknown	Singapore	95
	Volt Bank	Sydney	Finance	NULL	1	2022-06-29	Series E	Australia	90
	Faze Medicines	Boston	Healthcare	NULL	1	2022-11-09	Series B	United States	81
	Deliv	SF Bay Area	Retail	669	1	2020-05-13	Series C	United States	80
	Edmodo	SF Bay Area	Education	NULL	1	2022-08-16	Acquired	United States	77
				NULL					

## 4.Total layoffs over each company

-- Total layoffs over each company

```
SELECT company, SUM(total_laid_off)
FROM layoffs_stagging2
GROUP BY company
ORDER BY 2 DESC ;
```



The screenshot shows a database interface with a 'Result Grid' tab. The grid displays the results of a SQL query, listing companies and their total layoffs. The interface includes a 'Filter Rows' field, 'Export' and 'Wrap Cell Content' buttons, and a tab labeled 'Result 9'.

company	SUM(total_laid_off)
Amazon	18150
Google	12000
Meta	11000
Salesforce	10090
Microsoft	10000
Philips	10000
Ericsson	8500
Uber	7585
Dell	6650
Booking.com	4601
Cisco	4100
Peloton	4084
Byju's	4000
Carvana	4000
Twitter	3940
Better.com	3900
IBM	3900
Groupon	3800
Bytedance	3750
Katerra	3074
SAP	3000
Swiggy	2880
Ola	2800

## 5. Layoff period

-- Layoff period

```
SELECT MIN(`date`),MAX(`date`)  
FROM layoffs_stagging2;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	MIN(`date`)	MAX(`date`)
▶	2020-03-11	2023-03-06

## 6. Total layoffs over each industry

-- Total layoffs over each industry

```
SELECT industry, SUM(total_laid_off)
FROM layoffs_stagging2
GROUP BY industry
ORDER BY 2 DESC ;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	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			
	Crypto	10693			
	Marketing	10258			
	Fitness	8748			
	Security	5979			
	Infrastructure	5785			
	Media	5234			
	Data	5135			
	Logistics	4026			
	Construction	3863			
	Support	3523			
	HR	2783			

Result 11 ×

## 7.Total layoffs over each country

-- Total layoffs over each country

```
SELECT country, SUM(total_laid_off)
FROM layoffs_stagging2
GROUP BY country
ORDER BY 2 DESC ;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	country	SUM(total_laid_off)			
▶	United States	256559			
	India	35993			
	Netherlands	17220			
	Sweden	11264			
	Brazil	10391			
	Germany	8701			8701
	United Kingdom	6398			
	Canada	6319			
	Singapore	5995			
	China	5905			
	Israel	3638			
	Indonesia	3521			
	Australia	2324			
	Nigeria	1882			
	United Arab Emirates	995			
	France	915			
	Hong Kong	730			
	Austria	570			
	Russia	400			
	Kenya	349			
	Estonia	333			
	Argentina	323			
	Senegal	300			
	...	---			

Result 12 x



## 8. Total layoffs over year

```
-- Total layoffs over year
```

```
SELECT YEAR(`date`), SUM(total_laid_off)
FROM layoffs_stagging2
GROUP BY YEAR(`date`)
ORDER BY 1 DESC ;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	YEAR(`date`)	SUM(total_laid_off)			
▶	2023	125677			
	2022	160661			
	2021	15823			
	2020	80998			
	NULL	500			

## 9. Total layoffs over stage

-- Total layoffs over stage

```
SELECT stage, SUM(total_laid_off)
FROM layoffs_stagging2
GROUP BY stage
ORDER BY 2 DESC ;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	stage	SUM(total_laid_off)			
▶	Post-IPO	204132			
	Unknown	40716			
	Acquired	27576			
	Series C	20017			
	Series D	19225			
	Series B	15311			
	Series E	12697			
	Series F	9932			
	Private Equity	7957			
	Series H	7244			
	Series A	5678			
	Series G	3697			
	Series J	3570			
	Series I	2855			
	Seed	1636			
	Subsidiary	1094			
	NULL	322			

## 10. Total percentage laid off over each company

```
-- Total percentage_laid_off over each company
```

```
SELECT company, SUM(percentage_laid_off)
FROM layoffs_stagging2
GROUP BY company
ORDER BY 2 DESC ;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	company	SUM(percentage_laid_off)			
▶	Service	2			
	Airy Rooms	1.7			
	Medly	1.6600000000000001			
	Pollen	1.6400000000000001			
	Rubius	1.5699999999999998			
	Propzy	1.5			
	The Wing	1.5			
	Airlift	1.31			
	Zeus Living	1.26			
	WanderJaunt	1.23			
	BlockFi	1.2			
	JetClosing	1.2			
	Nuri	1.2			
	Katerra	1.1			
	FrontRow	1.05			
	Ahead	1			
	Amplero	1			
	Arch Oncology	1			
	Assure	1			
	Atsu	1			
	Aura Financial	1			
	Automatic	1			
	Awok	1			

Result 18 ×

## 11. Rolling sum of lay offs over each month

```
-- Rolling sum of lay offs over each month
```

```
WITH Rolling_total AS
```

```
(
```

```
SELECT SUBSTRING(`date`,1,7) AS `MONTH`, SUM(total_laid_off) AS total_off
```

```
FROM layoffs_stagging2
```

```
WHERE SUBSTRING(`date`,1,7) IS NOT NULL
```

```
GROUP BY `MONTH`
```

```
ORDER BY 1 ASC
```

```
)
```

```
SELECT `MONTH`,total_off, SUM(total_off) OVER(ORDER BY `MONTH`) AS Rolling_sum
```

```
FROM Rolling_total;
```

Result Grid				Filter Rows:	Export:	Wrap Cell Content:
	MONTH	total_off	Rolling_sum			
▶	2020-03	9628	9628			
	2020-04	26710	36338			
	2020-05	25804	62142			
	2020-06	7627	69769			
	2020-07	7112	76881			
	2020-08	1969	78850			
	2020-09	609	79459			
	2020-10	450	79909			
	2020-11	237	80146			
	2020-12	852	80998			
	2021-01	6813	87811			
	2021-02	868	88679			
	2021-03	47	88726			
	2021-04	261	88987			
	2021-06	2434	91421			
	2021-07	80	91501			
	2021-08	1867	93368			
	2021-09	161	93529			
	2021-10	22	93551			
	2021-11	2070	95621			
	2021-12	1200	96821			
	2022-01	510	97331			
	2022-02	3685	101016			

Result 21 ✕

## 12. Total laid offs per company over each year

-- Total laid offs per company over each year

```
SELECT company, YEAR(`date`), SUM(total_laid_off)
FROM layoffs_stagging2
GROUP BY company, YEAR(`date`)
ORDER BY 3 DESC;
```

	company	YEAR(`date`)	SUM(total_laid_off)
▶	Google	2023	12000
	Meta	2022	11000
	Amazon	2022	10150
	Microsoft	2023	10000
	Ericsson	2023	8500
	Amazon	2023	8000
	Salesforce	2023	8000
	Uber	2020	7525
	Dell	2023	6650
	Philips	2023	6000
	Booking.com	2020	4375
	Cisco	2022	4100
	Peloton	2022	4084
	Carvana	2022	4000
	Philips	2022	4000
	IBM	2023	3900
	Twitter	2022	3700
	Bytedance	2021	3600
	Better.com	2022	3000
	SAP	2023	3000
	Groupon	2020	2800
	Byju's	2022	2500
	Katerra	2021	2434

### 13. Top 5 companies laid off over each year

-- Top 5 companies laid off over each year

```
• WITH Company_Year (company,years,total_laid_off)AS
  (
    SELECT company,YEAR(`date`), SUM(total_laid_off)
    FROM layoffs_stagging2
    GROUP BY company,YEAR(`date`)
  ), Company_year_rank AS
  (
    SELECT *,
    DENSE_RANK() OVER(PARTITION BY years ORDER BY total_laid_off DESC) AS Ranking
    FROM Company_Year
    WHERE years IS NOT NULL
  )
  SELECT *
  FROM Company_year_rank
  WHERE Ranking <=5;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
company	years	total_laid_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
Amazon	2022	10150	2
Cisco	2022	4100	3
Peloton	2022	4084	4
Carvana	2022	4000	5
Philips	2022	4000	5
Google	2023	12000	1
Microsoft	2023	10000	2
Ericsson	2023	8500	3
Amazon	2023	8000	4
Salesforce	2023	8000	4
Dell	2023	6650	5