

WORLD'S LAYOFFS

[Github : https://github.com/abhishekvermacu20/World-Layoffs](https://github.com/abhishekvermacu20/World-Layoffs)

[Portfolio website](#)

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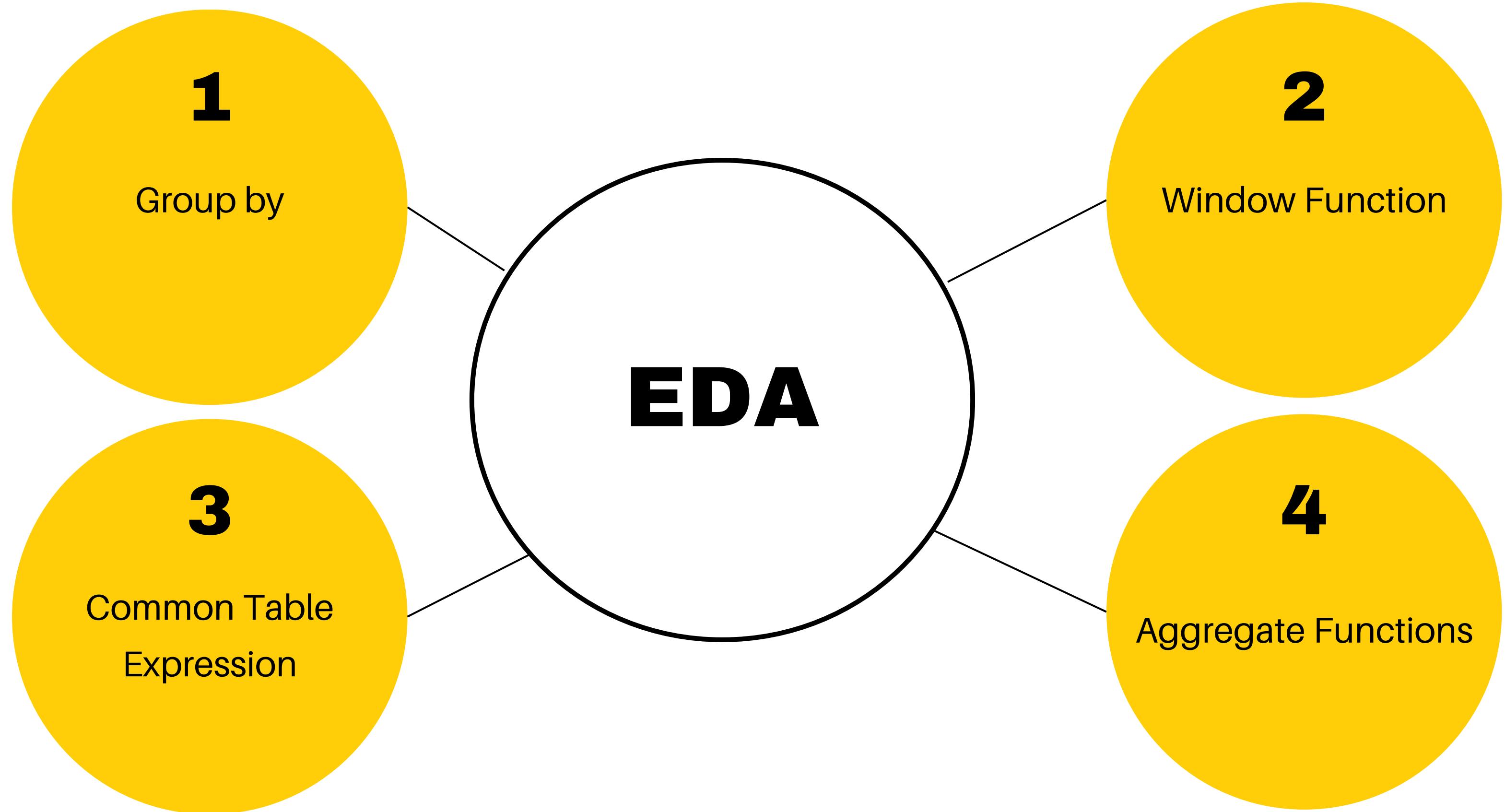
CONTACT





ABOUT PROJECT

In this project, we will transition from data cleaning to exploratory data analysis (EDA) using MySQL. EDA is the process of analyzing datasets to summarize their main characteristics, often employing visual methods. This phase involves identifying patterns, spotting anomalies, testing hypotheses, and checking assumptions with the aid of summary statistics and graphical representations. By systematically exploring the dataset, we can uncover insights that inform subsequent stages of data processing and analysis. This project will enable us to generate actionable insights and ensure that our data is well-understood before making data-driven decisions.





EXPLORATORY DATA ANALYSIS

Layoffs Dataset 2024

This dataset was scraped from Layoffs.fyi with the hope to enable Kaggle community to look into analyzing recent mass layoffs and discover useful insights and patterns.

Link

<https://www.kaggle.com/datasets/theakhilb/layoffs-data-2022/datas>.

Queries

1. Maximum Layoffs and Layoff Percentage,

```
6    -- Maximum laid off and percentage laid off
7 • select max(total_laid_off), max(percentage_laid_off)
8   from layoffs_staging2;
9
```

	max(total_laid_off)	max(percentage_laid_off)
▶	12000	1

Queries

```
11 • select *
12   from layoffs_staging2
13 where percentage_laid_off = 1
14 order by total_laid_off desc;
15 -- order by funds_raised_millions
16 • select *
17   from layoffs_staging2
18 where percentage_laid_off = 1
19 order by funds_raised_millions desc;
```

2. Maximum Layoffs and 100% Layoff Percentage,
Ordered by Funds Raised (in Millions)

laid_off	date	stage	country	funds_raised_millions
2023-01-17	Unknown	United Kingdom	2400	
2020-10-21	Private Equity	United States	1800	
2022-11-15	Post-IPO	Australia	1700	
2021-06-01	Unknown	United States	1600	
2022-11-28	Series E	United States	1000	

Queries

3. Top 10 Companies with the Highest Number of Layoffs Over

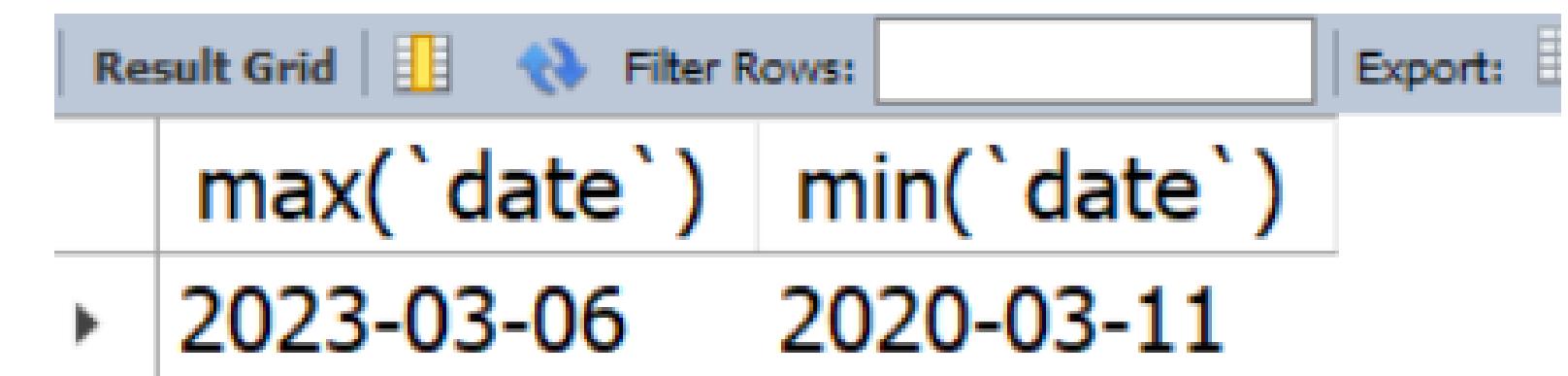
```
22 • select company, sum(total_laid_off) 'Number of employees  
23     laid off'  
24   from layoffs_staging2  
25   group by company  
26   order by sum(total_laid_off) desc  
27   limit 10;
```

	company	Number of employees laid off
▶	Amazon	18150
	Google	12000
	Meta	11000
	Salesforce	10090
	Microsoft	10000
	Philips	10000
	Ericsson	8500
	Uber	7585
	Dell	6650
	Booking.com	4601

Queries

4. Starting and ending date.

```
29    -- Total number of years.  
30 • select max(`date`), min(`date`)  
31   from layoffs_staging2;  
32
```



The screenshot shows a database query results grid. At the top, there are buttons for "Result Grid", "Filter Rows:", and "Export:". The results table has two columns: "max(`date`)" and "min(`date`)". The "max(`date`)" row contains the value "2023-03-06". The "min(`date`)" row contains the value "2020-03-11".

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

Queries

```
32 -- Top 10 industries laid off maximum number of employees
33 • select industry, sum(total_laid_off)
34   'Number of employees laid off'
35   from layoffs_staging2
36   group by 1
37   order by 2 desc
38   limit 10;
39
```

5. Top 10 Industries with the Highest Number of Layoffs Over

	industry	Number of employees laid off
►	Consumer	45182
	Retail	43613
	Other	36289
	Transportation	33748
	Finance	28344
	Healthcare	25953
	Food	22855
	Real Estate	17565
	Travel	17159
	Hardware	13828

Queries

6. Years with the Highest Number of Layoffs

```
48 • select year(`date`), sum(total_laid_off) AS  
49   'Number of employees laid off'  
50   from layoffs_staging2  
51   group by 1  
52   order by 2 desc  
53   limit 10;
```

	year(`date`)	Number of employees laid off
▶	2022	160661
	2023	125677
	2020	80998
	2021	15823
	NULL	500

Queries

7. Stage with the Highest Number of Layoffs

- ```
select stage, sum(total_laid_off) AS
'Number of employees laid off'
from layoffs_staging2
group by 1
order by 2 desc;
```

| Stage    | Number of employees laid off |
|----------|------------------------------|
| Post-IPO | 204132                       |
| Unknown  | 40716                        |
| Acquired | 27576                        |
| Series C | 20017                        |
| Series D | 19225                        |
| Series B | 15311                        |
| Series E | 12697                        |
| Series F | 9932                         |

# Queries

```
58 -- now use it in a CTE so we can query off of it
59 • WITH DATE_CTE AS
60 (
61 SELECT SUBSTRING(date,1,7) as dates,
62 SUM(total_laid_off) AS total_laid_off
63 FROM layoffs_staging2
64 GROUP BY dates
65 ORDER BY dates ASC
66)
67 SELECT dates, SUM(total_laid_off)
68 OVER (ORDER BY dates ASC) as rolling_total_layoffs
69 FROM DATE_CTE
70 ORDER BY dates ASC;
```

## 8. Rolling Total of Layoffs Per Month

| 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                 |

# Queries

---

```

85 • WITH Company_Year AS
86 (
87 SELECT company, YEAR(date) AS years,
88 SUM(total_laid_off) AS total_laid_off
89 FROM layoffs_staging2
90 GROUP BY company, YEAR(date)
91)
92 , Company_Year_Rank AS (
93 SELECT company, years, total_laid_off,
94 DENSE_RANK() OVER (PARTITION BY years ORDER BY total_laid_off DESC)
95 AS ranking
96 FROM Company_Year
97)
98 SELECT company, years, total_laid_off, ranking
99 FROM Company_Year_Rank
100 WHERE ranking <= 3
101 AND years IS NOT NULL
102 ORDER BY years ASC, total_laid_off DESC;

```

9. Earlier we looked at Companies with the most Layoffs. Now let's look at that per year.

|   | 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      | 2022  | 12000          | 1       |

# Let's Connect With Us!

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