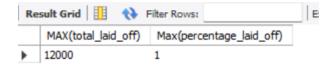
-- Exploratory Data Analysis

Performed various operation on the layoffs data

To find the Maximum layoffs

SELECT MAX(total_laid_off), Max(percentage_laid_off)

FROM layoffs staging2;



To find the details of companies who raised the maximum funds

SELECT *

FROM layoffs_staging2

WHERE percentage_laid_off = 1

ORDER BY funds_raised_millions DESC;

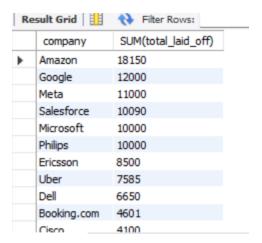
To find the company name and number of laid_off by company

SELECT company, SUM(total_laid_off)

FROM layoffs_staging2

GROUP BY company

ORDER BY 2 DESC;



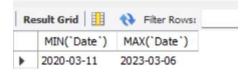
SELECT *

FROM layoffs_staging2;

Start and end date of the layoffs data

SELECT MIN(`Date`), MAX(`Date`)

FROM layoffs_staging2;



According to the industry, total no. of layoffs

SELECT industry, SUM(total_laid_off)

FROM layoffs_staging2

GROUP BY industry

ORDER BY 2 DESC;

According to the country, total no. of layoffs

SELECT country, SUM(total_laid_off)

FROM layoffs_staging2

GROUP BY country

ORDER BY 2 DESC;

SELECT * FROM layoffs_staging2;

According to the `date`, total no. of layoffs

SELECT `date`, SUM(total_laid_off)

FROM layoffs_staging2

GROUP BY 'Date'

ORDER BY 1 DESC;

```
According to the company, total no. of layoffs
SELECT company, SUM(percentage_laid_off)
FROM layoffs_staging2
GROUP BY company
ORDER BY 2 DESC;
Montly layoffs happened
SELECT substring(`Date`,1,7) AS `Month`, SUM(total_laid_off)
FROM layoffs_staging2
GROUP BY 'Month'
ORDER BY `Month`ASC;
Used the CTE function
WITH Rolling_Total AS
SELECT substring(`Date`,1,7) AS `Month`, SUM(total_laid_off) AS total_off
FROM layoffs_staging2
GROUP BY 'Month'
ORDER BY 'Month'ASC
)
SELECT `Month`, total_off,
SUM(total_off) OVER(ORDER BY `Month`) AS rolling_total
FROM Rolling_Total;
```

```
FROM layoffs_staging2
GROUP BY company
ORDER BY 2 DESC;
```

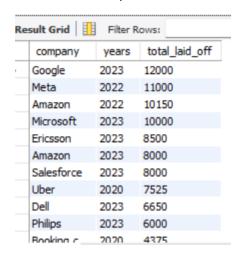
Arranged the layoffs according to Year

SELECT company,YEAR(`date`), SUM(total_laid_off)

FROM layoffs_staging2

GROUP BY company,YEAR(`date`)

ORDER BY 3 DESC;



```
WITH Company_Year (company, years, total_laid_off) AS (

SELECT company,YEAR(`date`), SUM(total_laid_off)

FROM layoffs_staging2

GROUP BY company,YEAR(`date`)

ORDER BY 3 DESC
)
```

```
SELECT *
FROM Company_Year;
Adding a Ranking Column for understanding the most layoffs in which company and year
WITH Company_Year (company, years, total_laid_off) AS
(
SELECT company,YEAR(`date`), SUM(total_laid_off)
FROM layoffs_staging2
GROUP BY company, YEAR ('date')
ORDER BY 3 DESC
), 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
ORDER BY RANKING ASC
)
SELECT *
FROM Company_Year_Rank;
                                         Export:
 Result Grid
               Filter Rows:
    company
                       total_laid_off
                                    RANKING
                years
    Uber
                2020
                       7525
                                    1
    Bytedance
                2021
                       3600
    Meta
                2022
                       11000
                                    1
    Google
                2023
                       12000
                                    1
                                    2
    Booking.com
                2020
                       4375
                                    2
    Katerra
                2021
                       2434
                                    2
    Amazon
                2022
                       10150
```

2023

2020

2021

2022

2023

2020

2021

Microsoft Groupon

Zillow

Cisco

Ericsson

Swiggy

Instacart

10000

2800

2000

4100

8500

2250

1877

2

3

3

3

4

```
Finding the top 5 companies having large number of layoffs
WITH Company_Year (company, years, total_laid_off) AS
SELECT company, YEAR (`date`), SUM (total_laid_off)
FROM layoffs_staging2
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 | Hiter Rows:
                                       Export: #
    company
               years total_laid_off RANKING
   Uber
                                   1
               2020
                      7525
   Booking.com 2020
                      4375
                                   2
   Groupon
               2020
                      2800
                      2250
                                   4
   Swiggy
               2020
   Airbnb
               2020
                      1900
                                   5
                                   1
   Bytedance
               2021
                      3600
   Katerra
               2021
                      2434
                                   2
   Zillow
               2021
                      2000
                                   3
   Instacart
               2021
                      1877
   WhiteHat Jr
                                   5
               2021
                      1800
   Meta
               2022
                      11000
                                   1
                                   2
   Amazon
               2022
                      10150
   Cisco
               2022
                      4100
                                   3
   Peloton
               2022
                                   4
                      4084
   Carvana
               2022
                      4000
                                   5
                                   5
   Philips
               2022
                      4000
```

Google

Microsoft

2023

2023

12000

10000

1

2