**Exploratory Data Analysis**

Select \* from layoff\_stage2 where percentage\_laid\_off=1 order by total\_laid\_off desc;

Select \* from layoff\_stage2 where percentage\_laid\_off=1 order by funds\_raised\_millions desc;

select company, SUM(total\_laid\_off) from layoff\_stage2 group by company order by 2 desc;

---- Time Range of Data ---

select min(`date`),max(`date`) from layoff\_stage2;

--- Industry having most layoffs ----

Select industry, Sum(total\_laid\_off) from layoff\_stage2

group by industry order by 2 DESC;

--- Country having most layoffs ----

Select country, Sum(total\_laid\_off) from layoff\_stage2

group by country order by 2 DESC;

--- Year having most layoffs ---

Select Year(`date`), Sum(total\_laid\_off) from layoff\_stage2

group by Year(`date`) order by 2 DESC;

--- Stage of the company having most layoffs----

Select stage, Sum(total\_laid\_off) from layoff\_stage2

group by stage order by 2 DESC;

--- Company average percentage lay off ---

select company, AVG(percentage\_laid\_off) from layoff\_stage2 group by company order by 2 desc;

Select SUBSTRING(`date`,1,7) As `month`,SUM(total\_laid\_off)

from layoff\_stage2 where SUBSTRING(`date`,1,7) is not null group by `month`;

--- Rolling Sum of Month layoffs---

with rolling\_sum as (

Select SUBSTRING(`date`,1,7) As `month`,SUM(total\_laid\_off) as monthly\_sum

from layoff\_stage2 where SUBSTRING(`date`,1,7) is not null group by `month`)

Select `month`,monthly\_sum, Sum(monthly\_sum) OVER(order by `month`) from rolling\_sum ;

--- Company laying off per year---

select company, year(`date`),SUM(total\_laid\_off) from layoff\_stage2

group by company,year(`date`)

having SUM(total\_laid\_off) is not null

order by 1 asc;

--- Rank each company on basis of layoff per year ----

with rank\_company\_on\_layoffs as (

select company, year(`date`) as year\_name,SUM(total\_laid\_off) as total from layoff\_stage2

where year(`date`) is not null

group by company,year(`date`)

having SUM(total\_laid\_off) is not null

order by 2 desc

),

company\_ranking as(

select \*, DENSE\_Rank()

over(partition by year\_name order by total desc) as ranking

from rank\_company\_on\_layoffs)

select \* from company\_ranking where ranking<=5;