```sql
-- Exploratory Data Analysis

SELECT *
FROM layoffs_staging2;


SELECT MAX(total_laid_off), MAX(percentage_laid_off)
FROM layoffs_staging2;

SELECT *
FROM layoffs_staging2
WHERE percentage_laid_off = 1
ORDER BY funds_raised_millions DESC;

SELECT company, SUM(total_laid_off)
FROM layoffs_staging2
GROUP BY company
ORDER BY 2 DESC;

SELECT MIN(`date`), MAX(`date`)
FROM layoffs_staging2;


SELECT country, SUM(total_laid_off)
FROM layoffs_staging2
GROUP BY country
ORDER BY 2 DESC;

SELECT *
FROM layoffs_staging2;

SELECT YEAR(`date`), SUM(total_laid_off)
FROM layoffs_staging2
GROUP BY YEAR (`date`)
ORDER BY 1 DESC;


SELECT stage, SUM(total_laid_off)
FROM layoffs_staging2
GROUP BY stage
ORDER BY 2 DESC;


SELECT company, AVG(total_laid_off)
FROM layoffs_staging2
GROUP BY company
ORDER BY 2 DESC;




SELECT SUBSTRING(`date`,1,7) AS `MONTH`, SUM(total_laid_off)
FROM layoffs_staging2
WHERE SUBSTRING(`date`,1,7) IS NOT NULL
```

```sql
GROUP BY `MONTH`
ORDER BY 1 ASC;



WITH Rolling_Total AS
(
SELECT SUBSTRING(`date`,1,7) AS `MONTH`, SUM(total_laid_off) AS total_off
FROM layoffs_staging2
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_total
FROM Rolling_Total;


SELECT company, SUM(total_laid_off)
FROM layoffs_staging2
GROUP BY company
ORDER BY 2 DESC;

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`)
), 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
;
```