## LAYOFFS DATASET

```
# DATA CLEANING
USE WORLD_LAYOFFS;
SELECT * FROM layoffs;
-- 1. Remove Duplicates
-- 2. Standardize The Data
-- 3. Null Values or Blank Values
-- 4. Remove Any Columns
CREATE TABLE layoffs_staging
LIKE layoffs;
SELECT * FROM layoffs_staging;
INSERT layoffs_staging
SELECT * FROM layoffs;
SELECT * FROM layoffs_staging;
# CHECK DUPLICATES AND REMOVE IT
SELECT *,
ROW_NUMBER() OVER(PARTITION BY company, industry, total_laid_off, percentage_laid_off, 'date')
AS row_num
FROM layoffs_staging;
WITH duplicates_cte AS
(SELECT *,
ROW_NUMBER() OVER(PARTITION BY company, location, industry, total_laid_off,
percentage_laid_off, 'date',
```

stage,country, funds\_raised\_millions) AS row\_num

```
FROM layoffs_staging)
SELECT * FROM duplicate_cte
where row_num > 1;
SELECT * FROM layoffs_staging
WHERE company = 'Casper';
WITH duplicates_cte AS
(SELECT *,
ROW_NUMBER() OVER(PARTITION BY company, location, industry, total_laid_off,
percentage_laid_off, 'date',
stage,country, funds_raised_millions) AS row_num
FROM layoffs_staging)
DELETE FROM duplicate_cte
where row_num > 1;
CREATE TABLE `layoffs_staging2` (
 `company` text,
 'location' text,
 'industry' text,
 `total_laid_off` int DEFAULT NULL,
 `percentage_laid_off` text,
 `date` text,
 `stage` text,
 `country` text,
 `funds_raised_millions` int DEFAULT NULL,
 `row_num` INT
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

SELECT \* FROM layoffs\_staging2;

```
INSERT INTO layoffs_staging2
SELECT *,
ROW_NUMBER() OVER(PARTITION BY company, location, industry, total_laid_off,
percentage_laid_off, 'date',
stage,country, funds_raised_millions) AS row_num
FROM layoffs_staging;
SET SQL_SAFE_UPDATES=0;
DELETE FROM layoffs_staging2
WHERE row_num > 1;
SELECT * FROM layoffs_staging2
WHERE row_num > 1;
-- Standardizing Data
SELECT company, TRIM(company)
FROM layoffs_staging2;
UPDATE layoffs_staging2
SET company = TRIM(company);
SELECT DISTINCT industry FROM layoffs_staging2 # Industry Column
WHERE industry LIKE 'Crypto%';
                                                                    # it is same, we need to
change this
UPDATE layoffs_staging2
SET industry = 'Crypto'
WHERE industry LIKE 'Crypto%';
```

```
SELECT DISTINCT country FROM layoffs_staging2 # Duplicates (Country Column)
ORDER BY 1;
SELECT DISTINCT country, TRIM(TRAILING '.' FROM country) FROM layoffs_staging2
ORDER BY 1;
UPDATE layoffs_staging2
                                                                                  # Duplicates
Remove
SET country = TRIM(TRAILING '.' FROM country)
where COUNTRY like 'United States%';
SELECT 'date',
                                                                                  # Change
date Format
STR_TO_DATE(`DATE`,'%m/%d/%Y')
FROM layoffs_staging2;
UPDATE layoffs_staging2
SET `date` = STR_TO_DATE(`date`, '%m/%d/%Y');
                                                           # Update Change Date
SELECT `date`
FROM layoffs_staging2;
ALTER TABLE layoffs_staging2
MODIFY COLUMN 'date' DATE;
-- Null Values
SELECT * FROM layoffs_staging2
                                                    # THIS IS NULL VALUES
WHERE total_laid_off IS NULL
AND percentage_laid_off IS NULL;
```

```
UPDATE layoffs_staging2
SET industry = null
WHERE industry = ";
SELECT * FROM layoffs_staging2
                                                      # THIS IS NULL VALUES
WHERE industry IS NULL
OR industry = ";
SELECT * FROM layoffs_staging2
WHERE company = 'Airbnb';
SELECT * FROM layoffs_staging2 t1
JOIN layoffs_staging2 t2
ON t1.company = t2.company
where (t1.industry IS NULL OR t1.industry = ")
AND t2.industry IS NOT NULL;
SELECT t1.industry, t2.industry FROM layoffs_staging2 t1
                                                                             # fill the blank space
into NULL
JOIN layoffs_staging2 t2
       ON t1.company = t2.company
WHERE (t1.industry IS NULL OR t1.industry = ")
AND t2.industry IS NOT NULL;
UPDATE layoffs_staging2 t1
JOIN layoffs_staging2 t2
       ON t1.company = t2.company
SET t1.industry = t2.industry
WHERE t1.industry IS NULL
AND t2.industry IS NOT NULL;
```

SELECT \* FROM layoffs\_staging2 # COLUMN total\_laid\_off AND total\_laid\_off

, all rows are empty
WHERE total\_laid\_off IS NULL
AND percentage\_laid\_off IS NULL;

DELETE FROM layoffs\_staging2
WHERE total\_laid\_off IS NULL
AND percentage\_laid\_off IS NULL;

SELECT \* FROM layoffs\_staging2;

ALTER TABLE layoffs\_staging2

DROP COLUMN row\_num;

SELECT \* FROM layoffs\_staging2;