

# Layoffs

## Short description

From 2020 to 2022, we have seen many layoffs in the business world, spanning over different sectors in many different countries. This dashboard creates a visualisation of the layoffs.

## Business requirement

In 2020 when Covid spread and worldwide lockdowns were implemented, layoffs seemed like the inevitable next step for many companies that weren't structured to work remotely and sadly, that became the reality.

We saw a change in the workforce with the popularisation of the hybrid work model and more tendencies towards work from home.

Surprisingly the shift helped many businesses flourish and 2021 saw significantly fewer layoffs.

That trend changed over 2022, with layoffs increasing and many companies freezing further hires. Stock markets crashed and many companies have had to reconsider their spending strategies.

This project explores the layoffs tracked by <https://layoffs.fyi/> (although the data only covers 2020-2022 while the website continues to update constantly).

The dashboard shows:

- Total number of employees as well as companies affected
- Insights into the number of employees laid off in relation to time, location, industry and company
- Options to filter by time, industry and/or country
- Tooltips:
  - Total laid off by year, by location, by industry gives further insight into the company details
  - Total laid off by company gives further insight into company stage and funds raised
- Drill through
  - Provides additional information for each widget including the data source

# Entities

## Entity: Stage Details

**Entity function:** Lists the possible stages of a company

|                      |   |             |
|----------------------|---|-------------|
| Column Name          | Stage_ID                                | Stage       |
| Primary/ Foreign Key | Primary Key                             |             |
| Description          | Unique number representing the stage ID | Stage name  |
| Null/Not Null        | Not Null Unique                         | Not Null    |
| Datatype             | integer                                 | varchar(50) |

## Entity: Location Details

**Entity function:** Lists the locations of companies

|                      |  |               |
|----------------------|--|---------------|
| Column Name          | Location_ID                                | Location      |
| Primary/ Foreign Key | Primary Key                                |               |
| Description          | Unique number representing the location ID | Location name |
| Null/Not Null        | Not Null Unique                            | Not Null      |
| Datatype             | integer                                    | varchar(50)   |

## Entity: Industry Details

**Entity function:** Lists the possible industries of a company

|                      |  |               |
|----------------------|--|---------------|
| Column Name          | Industry_ID                                | Industry      |
| Primary/ Foreign Key | Primary Key                                |               |
| Description          | Unique number representing the industry ID | Industry name |
| Null/Not Null        | Not Null Unique                            | Not Null      |
| Datatype             | integer                                    | varchar(50)   |

**Entity: Location Details****Entity function:** Lists the countries of companies

|                      |   |              |
|----------------------|---|--------------|
| Column Name          | Country_ID                                | Country      |
| Primary/ Foreign Key | Primary Key                               |              |
| Description          | Unique number representing the country ID | Country name |
| Null/Not Null        | Not Null Unique                           | Not Null     |
| Datatype             | integer                                   | varchar(50)  |

**Entity: Normalised Layoff Dataset****Entity function:** Parent entity which brings together the information of the company name, country, date, funds raised, industry, total people laid off(in on round of layoffs), location, percentage of the company that has been laid off, source of the data and which stage the company is in.

|                      |              |                                     |                               |                              |                        |                       |                        |                                      |  |                     |
|----------------------|--------------|-------------------------------------|-------------------------------|------------------------------|------------------------|-----------------------|------------------------|--------------------------------------|--|---------------------|
| Column Name          | Company      | Country_ID                          | Date                          | Funds_Raised                 | Industry_ID            | Laid_Off_Count        | Location_ID            | Percentage                           | Source   | Stage_ID            |
| Primary/ Foreign Key |              | Foreign Key                         |                               |                              | Foreign Key            |                       | Foreign Key            |                                      |  | Foreign Key         |
| Description          | Company Name | Country ID that is being referenced | Date the layoff was published | Funds the company has raised | Industry ID referenced | Total people laid off | Location ID referenced | Percentage of the employees laid off | Website link to details of the layoff announcement | Stage ID referenced |
| Null/Not Null        | Not Null     | Not Null                            | Null                          | Null                         | Not Null               | Null                  | Not Null               | Null                                 | Null   | Not Null            |
| FK Table             |              | Country Details                     |                               |                              | Industry Details       |                       | Location Details       |                                      |  | Stage Details       |
| FK Column            |              | Country_ID                          |                               |                              | Industry_ID            |                       | Location_ID            |                                      |  | Stage_id            |
| Datatype             | varchar(100) | integer                             | date                          | integer                      | integer                | integer               | integer                | integer                              | varchar(500)                                       | Integer             |

# Entities Relationship Diagram

