Layoffs 2020:2024

1. Import the flat file containing the dataset for our project using SQL Server Import.

2. Perform some exploration and preparation on the data.

3. Extracted the Views and Load to Power Query (Import Mode).

4. Creating the Date Dimension using DAX.

5. Building the Data Model on Power BI (Star schema).

6. Analyzing data by using visuals and DAX Measures.

7. Creating 5 Interactive Dashboards for all business Perspectives.

```sql
---Create a copy to make changes to it.
SELECT * INTO Layoffs
FROM rawdata;
```

```sql
-------- Find rows with missing values in specif
SELECT * FROM layoffs
WHERE Company_Name IS NULL OR Location IS NULL
-- Remove rows with missing values
DELETE FROM layoffs
WHERE Company_Name IS NULL OR Location IS NULL
```

```sql
--------Check Data Types and Formatting:
--------- Alter column data types if nece
ALTER TABLE layoffs
MODIFY COLUMN Date DATE;
```

```sql
--------Check Spelling Mistakes and Inconsister
-------- Use pattern matching to find potenti
SELECT Company_Name, COUNT(*)
FROM layoffs
GROUP BY Company_Name
HAVING COUNT(*) = 1;
```

```sql
--------Remove Duplicate Values in Company
---------- Remove duplicate company names
DELETE l1 FROM layoffs l1
INNER JOIN layoffs l2
WHERE l1.id > l2.id AND l1.Company_Name =
```

```sql
CREATE PROCEDURE UpdateColumnsWithMinValue
AS
BEGIN
    DECLARE @MinFundsRaised DECIMAL(18, 2);

    -- Find the minimum value in the Funds_Raised column
    SELECT @MinFundsRaised = MIN(Funds_Raised)
    FROM Layoffs;

    -- Update the Funds_Raised column where it is NULL
    UPDATE Layoffs
    SET Funds_Raised = @MinFundsRaised
    WHERE Funds_Raised IS NULL;
```

```sql
CREATE PROCEDURE UpdateColumnsWithMinValue
AS
BEGIN
    DECLARE @MinLaidOffno DECIMAL(18, 2);

    -- Find the minimum value in the Funds_Raised column
    SELECT @MinLaidOffno = MIN(Laid_Off_Count)
    FROM Layoffs;

    -- Update the Laid_Off_Count column where it is NULL
    UPDATE Layoffs
    SET Laid_Off_Count = @MinLaidOffno
    WHERE Funds_Raised IS NULL;
```

```sql
CREATE VIEW facttable AS
SELECT
    Layoffs.Company,
    Layoffs.Date,
    Layoffs.Industry,
    Layoffs.Laid_Off_Count,
    Layoffs.Funds_Raised,
    Layoffs.Location_HQ,
    Layoffs.Category
FROM
    Layoffs;
```

```sql
CREATE VIEW Company_View AS
SELECT
    DISTINCT Layoffs.Company
FROM
    Layoffs;
```

```sql
CREATE OR REPLACE VIEW Category_View AS
SELECT
    DISTINCT Category,
    Layoffs.Stage
FROM
    Layoffs;
```

```sql
CREATE OR REPLACE VIEW Industry_View AS
SELECT
    DISTINCT Layoffs.Industry
FROM
    Layoffs;
```
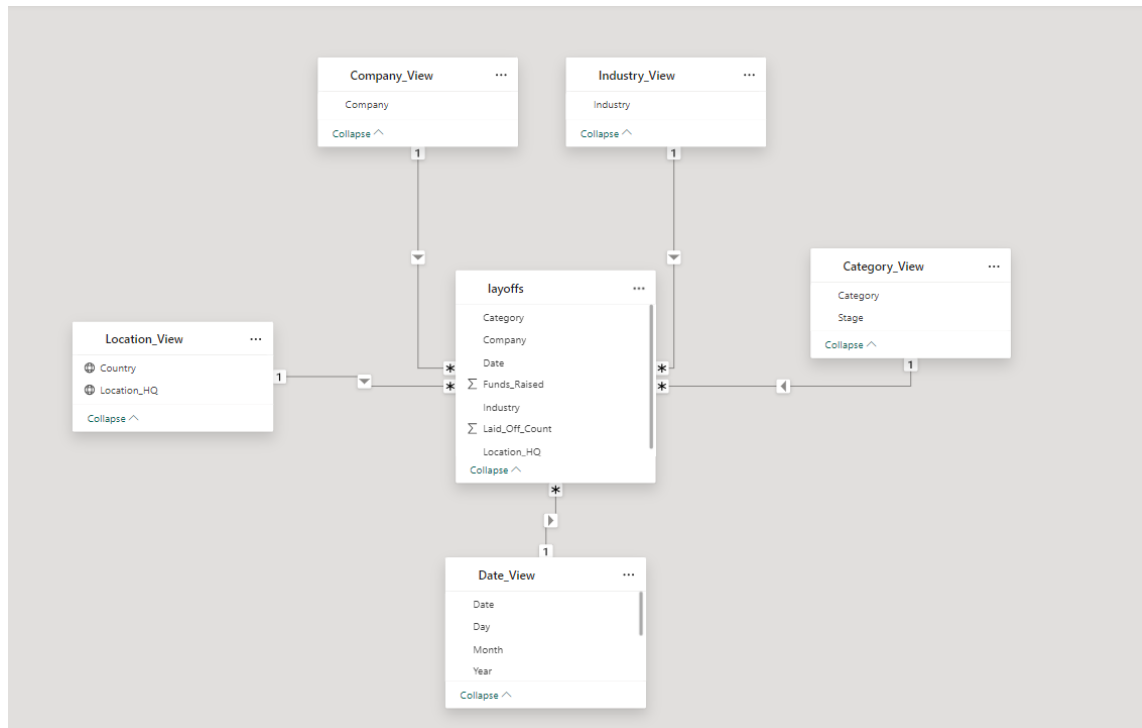
```sql
CREATE OR REPLACE VIEW Location_View AS
SELECT
    DISTINCT Location_HQ,
    Country
FROM
    Layoffs;
```
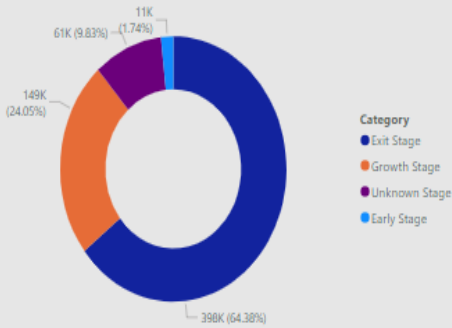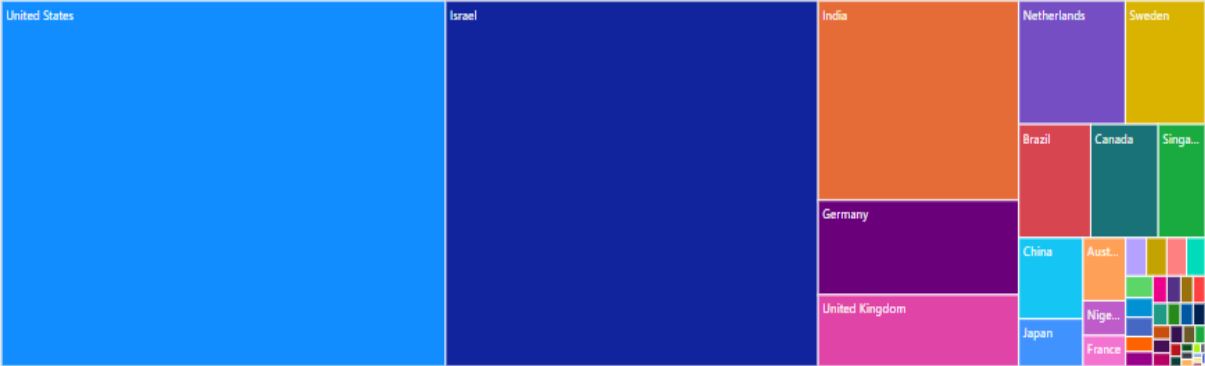
```sql
CREATE VIEW Date_View AS
SELECT
    DISTINCT Date,
    YEAR(Date) AS Year,
    MONTH(Date) AS Month,
    DAY(Date) AS Day
FROM
    Layoffs;
```
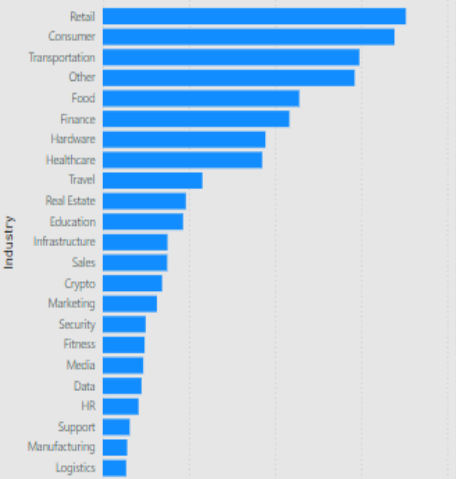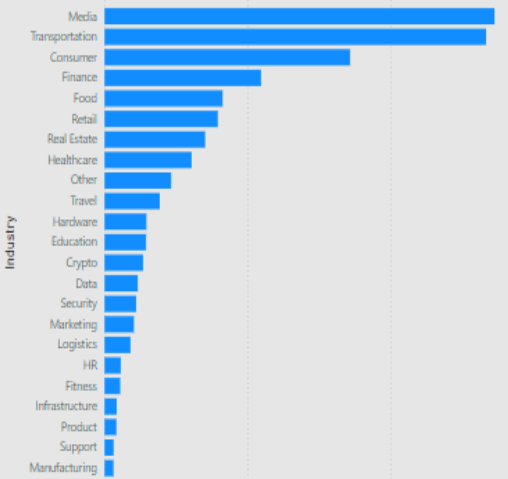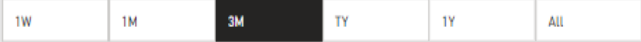
Layoffs

Sum of Laid_Off_Count by Country

Country
United States
Israel
India
Netherlands
Sweden
Brazil
Canada	Singa...
Germany
China	Aust...
United Kingdom	Nige...
Japan	France

Category
- Exit Stage
- Growth Stage
- Unknown Stage
- Early Stage

11K (1.74%)
61K (9.83%)
149K (24.05%)
398K (64.38%)

Total Fundrasied

_1 layoffsnumber by Industry

Industry (top to bottom): Retail, Consumer, Transportation, Other, Food, Finance, Hardware, Healthcare, Travel, Real Estate, Education, Infrastructure, Sales, Crypto, Marketing, Security, Fitness, Media, Data, HR, Support, Manufacturing, Logistics

X-axis: 0K, 20K, 40K, 60K, 80K — _1 layoffsnumber

_1 Total fundrasied by Industry

Industry (top to bottom): Media, Transportation, Consumer, Finance, Food, Retail, Real Estate, Healthcare, Other, Travel, Hardware, Education, Crypto, Data, Security, Marketing, Logistics, HR, Fitness, Infrastructure, Product, Support, Manufacturing

X-axis: 0.0M, 0.2M, 0.4M, 0.6M — _1 Total fundrasied

Total Fundrasied

| 1W | 1M | 3M | TY | 1Y | All |

193.3K

-43.3K | 18.3% ▼

Previous 3 Months: 236.55K

Y-axis: 0K, 5K, 10K, 15K, 20K, 25K
X-axis: Mar 2024, Apr 2024, May 2024