1. Write an SQL query to solve the given problem statement.

What is the number of reported incidents?

The task is to calculate the total number of incidents reported in the given dataset.

* SELECT COUNT(id) FROM fatalities\_cleaned;

1. Write an SQL query to solve the given problem statement.

What is the year to year change for the number of fatal incidents?

The task is to calculates the year-to-year percentage changes(Round it of to nearest whole number) in the number of fatalities for each incident year, excluding the year 2022.

* WITH fatalities\_count AS (

SELECT

EXTRACT(YEAR FROM incident\_date) AS incident\_year,

COUNT(id) AS n\_fatalities,

LAG(COUNT(id)) OVER (ORDER BY EXTRACT(YEAR FROM incident\_date)) AS previous\_year

FROM fatalities\_cleaned

WHERE EXTRACT(YEAR FROM incident\_date) != 2022

GROUP BY EXTRACT(YEAR FROM incident\_date)

)

SELECT

incident\_year,

n\_fatalities,

previous\_year,

ROUND(((n\_fatalities - previous\_year) / previous\_year) \* 100) AS year\_to\_year

FROM fatalities\_count

ORDER BY incident\_year;

1. Write an SQL query to solve the given problem statement.

What is the number of fatalities that received a citation?

The task is to calculates the total number of fatalities that recieved a citation.

* SELECT citation, COUNT(\*)

FROM fatalities\_cleaned

GROUP BY citation;

1. Write an SQL query to solve the given problem statement.

What day of the week has the most fatalities and what is the overall percentage?

The task is to calculates day of the week that reported more number of fatalities and percentage(Rounds the percentage to two decimal places).

* SELECT day\_of\_week, COUNT(\*) AS n\_fatalities, ROUND((COUNT(\*) \* 100.0) / (SELECT COUNT(\*) FROM fatalities\_cleaned), 2) AS percentage

FROM fatalities\_cleaned

GROUP BY day\_of\_week

ORDER BY n\_fatalities DESC;

1. Write an SQL query to solve the given problem statement.

What is the number of fatalities involving welding?

The task is to calculates the total number of fatalities during welding.

* SELECT COUNT(\*) AS welding\_fatalities

FROM fatalities\_cleaned

WHERE description LIKE '%weld%';

1. Write an SQL query to solve the given problem statement.

Select the last 5 from the previous query

The task is to calculates the last 5 fatalities during welding.

* SELECT id, incident\_date, day\_of\_week, city, state, description, plan, citation

FROM fatalities\_cleaned

WHERE description LIKE '%weld%'

ORDER BY incident\_date DESC

LIMIT 5;

1. Write an SQL query to solve the given problem statement.

Select the top 5 states with the most fatal incidents.

* The task is to calculates the top 5 states which have most fatal incidents.

SELECT state, COUNT(\*) AS fatal\_incidents

FROM fatalities\_cleaned

GROUP BY state

ORDER BY fatal\_incidents DESC

LIMIT 5;

8. Write an SQL query to solve the given problem statement.

What are the top 5 states that had the most workplace fatalities from stabbings?

The task is to calculates the top 5 states which have most fatal incidents happed from stabbing.

* SELECT state, COUNT(\*) AS stabbing\_deaths

FROM fatalities\_cleaned

WHERE description LIKE '%stabb%'

GROUP BY state

ORDER BY stabbing\_deaths DESC

LIMIT 5;

1. Write an SQL query to solve the given problem statement.

What are the top 10 states that had the most workplace fatalities from shootings?

The task is to calculates the top 10 states which have most fatal incidents happed from shooting.

* SELECT state, COUNT(\*) AS shooting\_deaths

FROM fatalities\_cleaned

WHERE description LIKE '%shot%'

GROUP BY state

ORDER BY shooting\_deaths DESC

LIMIT 10;

1. Write an SQL query to solve the given problem statement.

What are the top 10 states that had the most workplace fatalities from shootings?

The task is to calculates the top 10 states which have most fatal incidents happed from shooting.

* SELECT YEAR(incident\_date) AS incident\_year, COUNT(\*) AS shooting\_deaths

FROM fatalities\_cleaned

WHERE description LIKE '%shot%'

GROUP BY YEAR(incident\_date)

ORDER BY incident\_year DESC;