**POWERBI – PROJECT**

**CRIMES ON WOMEN IN INDIA   
(2001 – 2021)**

* **OBJECTIVE:**

The objective of this Power BI project is to analyse crime data related to women across various Indian states over time. By examining key crime categories such as rape, dowry deaths, kidnapping & assault, domestic violence, and trafficking, the project seeks to uncover trends and patterns in crimes against women.

This analysis is intended to law enforcement agencies, social workers, and researchers in understanding the regional distribution of these crimes, identifying areas where actions are most needed. The project will also track changes over the years crime rates.

This project aims to aid in the formation of strategies to reduce crime against women, making society safer.

* **DATA OVERVIEW:**

The dataset contains crime statistics related to women across various Indian states and years. Below are the key columns and their descriptions:

* **SNO:** A serial number to identify each row of data.
* **STATE:** The name of the Indian state or union territory where the crime was reported.
* **YEAR:** The year the crime data was recorded.
* **RAPE:** Number of reported rape cases in the given state and year.
* **KIDNAP & ASSAULT:** Number of reported kidnapping and assault cases.
* **DOWRY DEATH:** Cases involving the death of women related to dowry disputes.
* **ASSAULT ON WOMEN:** Number of cases where women were assaulted.
* **ASSAULT ON MINOR:** Number of cases involving assault on minors.
* **DOMESTIC VIOLENCE:** Reported cases of domestic violence.
* **WOMEN TRAFFICKING:** Cases of human trafficking involving women.
* **TOTAL CASES:** The total number of reported crimes against women in year
* **KEY METRICS:**
* **Total Crimes Against Women:** Sum of all reported crimes in different categories.
* **Crime Trends:** Year-over-year comparison of total crimes against women.
* **Top States for Crimes:** Identifies states with the highest and Lowest reported cases in various categories.
* **Crimes by Category:** Breakdown of crimes (Rape, Dowry Deaths, Domestic Violence, etc.) per state and year.
* **Most Frequent Crime Type:** Identifying the most common type of crime can help in focusing preventive measures.
* **Safest State:** State with the lowest crime rate.
* **Unsafe State:** State with the highest crime rate.
* **VISUALIZATION USED:**

1. **Cards:**

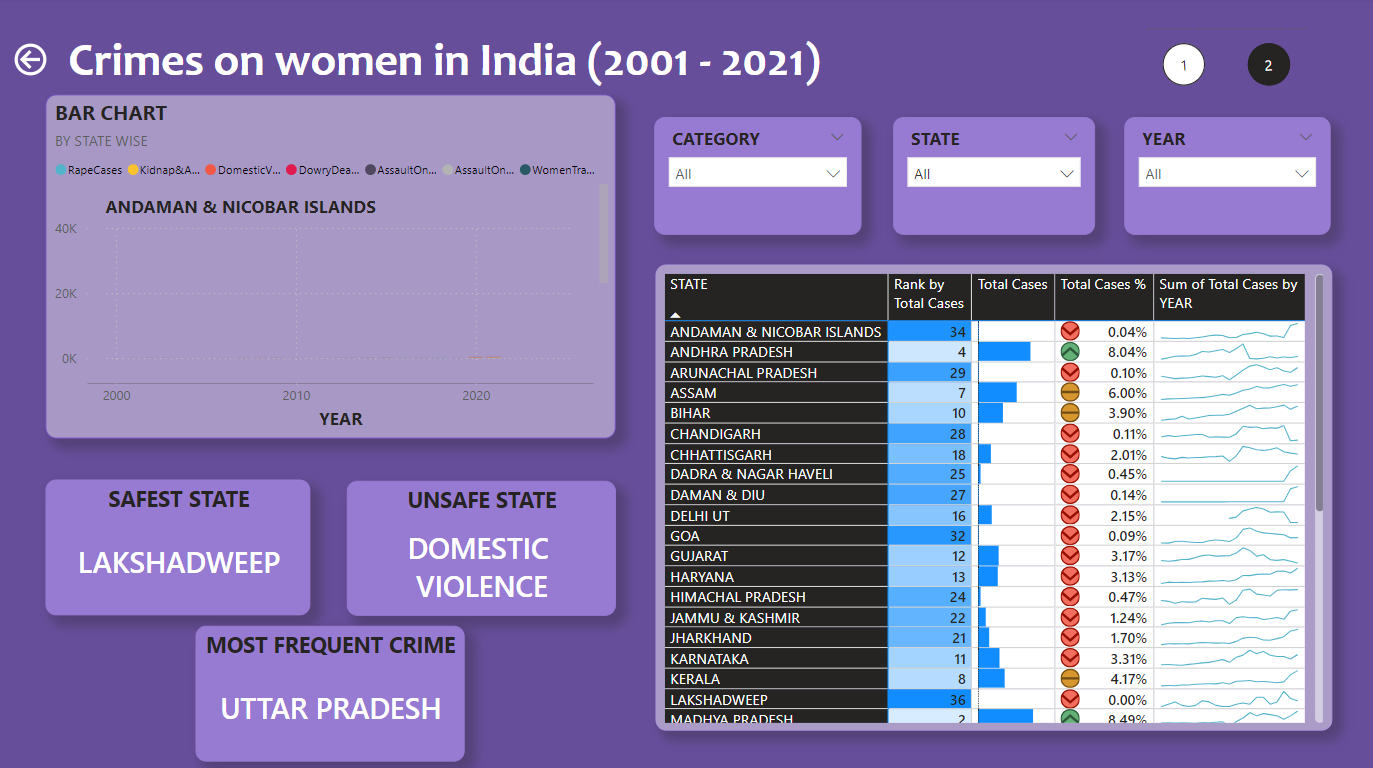
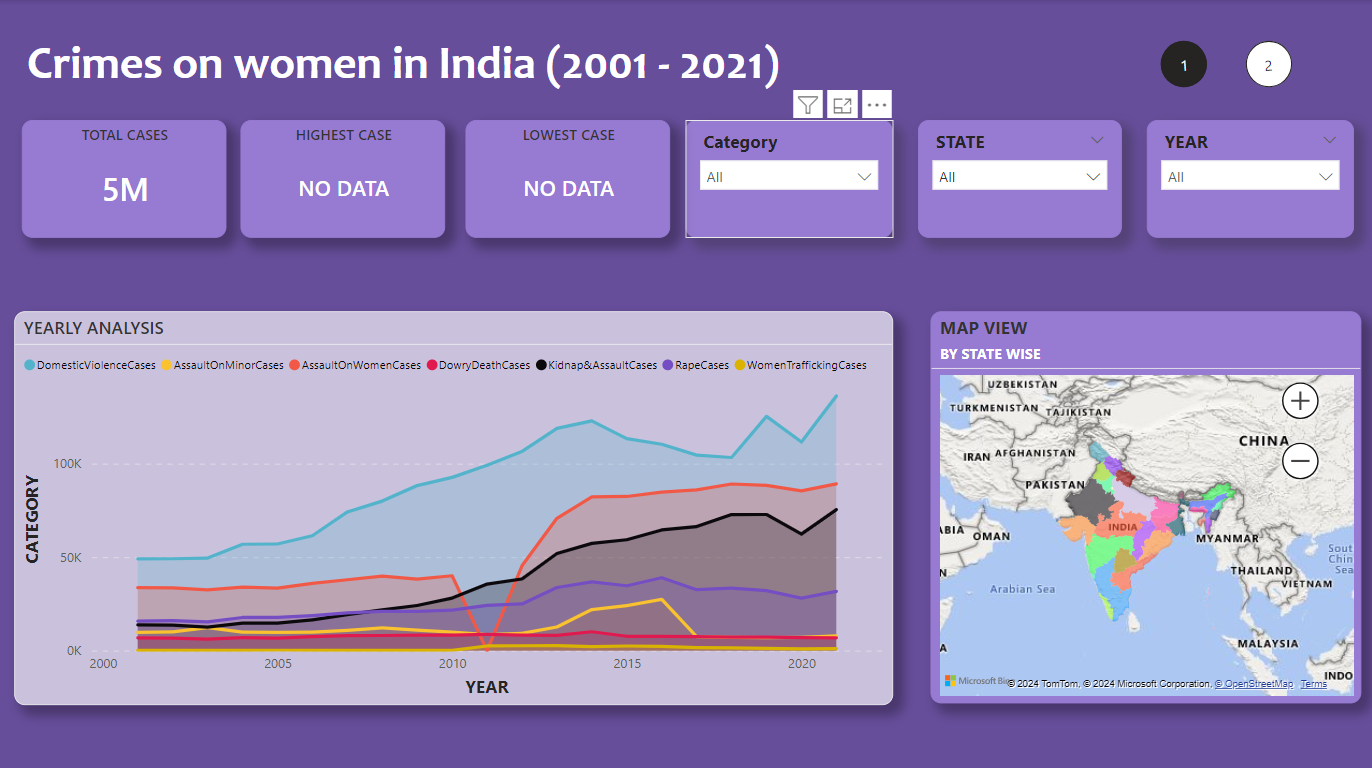
* **Total Cases:** Displays the overall number of cases.
* **Highest Case**: Shows the state or category with the highest number of cases.
* **Lowest Case:** Indicates the state or category with the lowest number of cases.
* **Safest State**: Displays the state with the lowest crime rate.
* **Unsafe State**: Shows the state with the highest crime rate.
* **Most Frequent Crime**: Highlights the most common type of crime.

1. **Slicers:**

* **Category:** Allows users to filter data based on different crime categories.
* **State:** Enables filtering by state.
* **Year:** Provides a way to filter data by year.

1. **Visualizations:**

* **Map:** Displays the geographical distribution of crime data across different states.
* **Line Chart:** Shows trends over time, helping to identify patterns and changes in crime rates.
* **Stacked Column Chart:** To show the composition of different categories within a total.
* **Matrix Table with Conditional Formatting**: To provide a detailed view of the data with visual clues by using conditional formatting.
* **SCREENSHOTS :**

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