

Final_Overview_Crimes_Malaysia (1)

File created on: 20/1/2025 7:46:28 AM



CRIME EVOLUTION IN MALAYSIA (2021–2023)

Data-Driven Insights for Public Safety

PROBLEM STATEMENTS



Crime rates in Malaysia fluctuated significantly between 2021 and 2023, with notable variations across states and crime types.



Urbanized regions like **Selangor** and **Kuala Lumpur** report higher crime rates, while specific districts show emerging trends.



Assault crimes (e.g., robbery, gang-related violence) and **property** crimes (e.g., vehicle theft, house break-ins) remain major concerns.

OBJECTIVES

Objective 1:

To analyze the annual crime trends in Malaysia between 2021 and 2023

Objective 2:

To identify crime hotspots and regional variations in crime patterns within Malaysia from 2021 to 2023

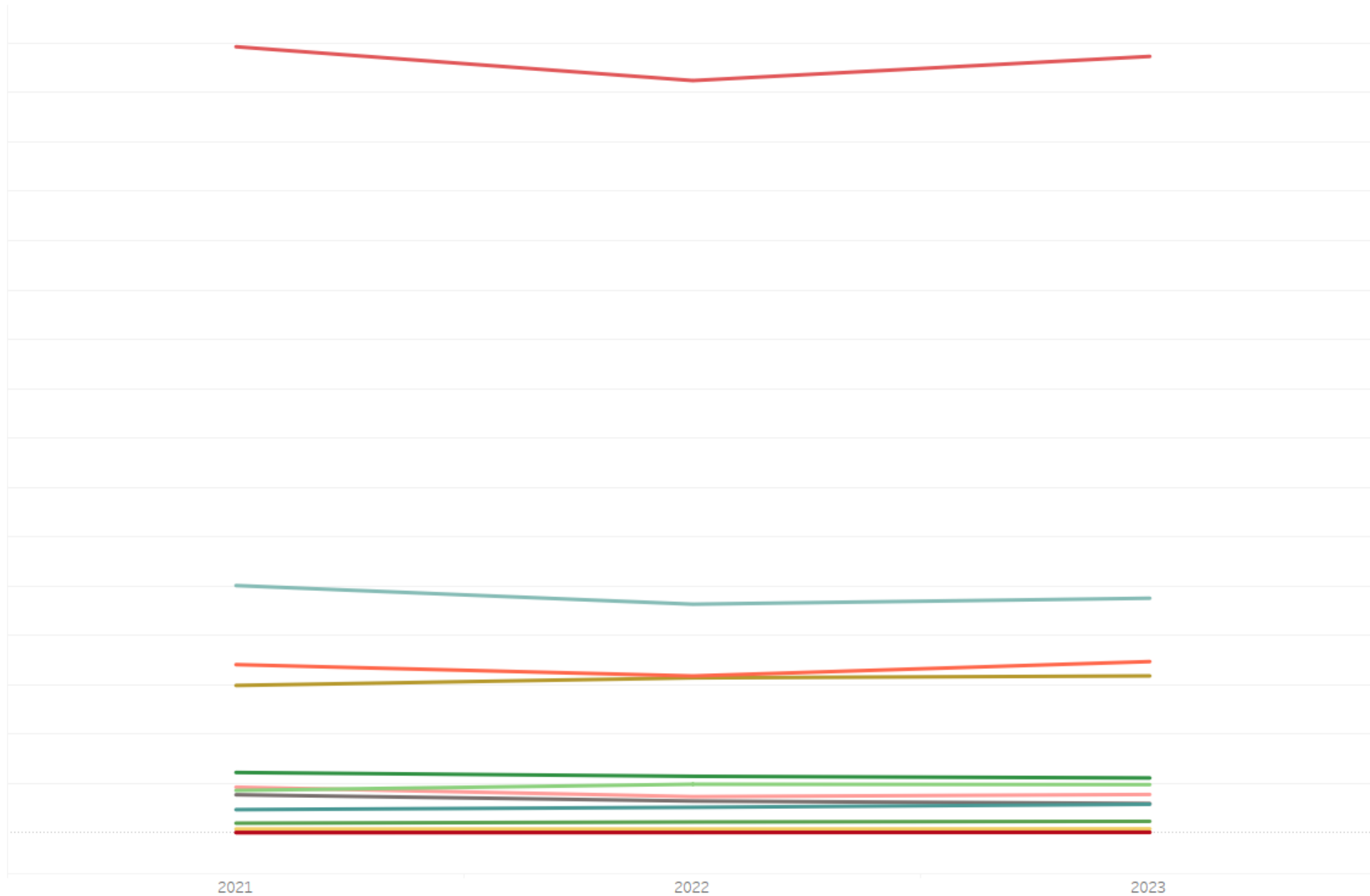
Objective 3:

To examine the relationship between different types of crime (Assault vs Property Crimes) and their distribution across states in Malaysia

Crime Trends Over Time

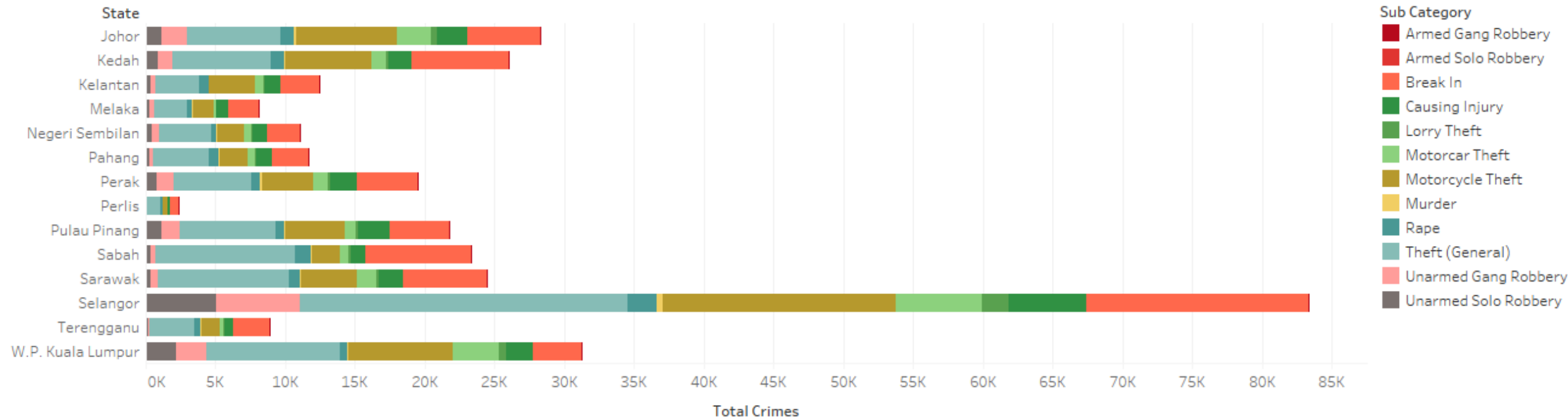
Year

- Sub Category
- Armed Gang Robbery
 - Armed Solo Robbery
 - Break In
 - Causing Injury
 - Lorry Theft
 - Motorcar Theft
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 - Murder
 - Rape
 - Theft (General)
 - Total
 - Unarmed Gang Robbery
 - Unarmed Solo Robbery



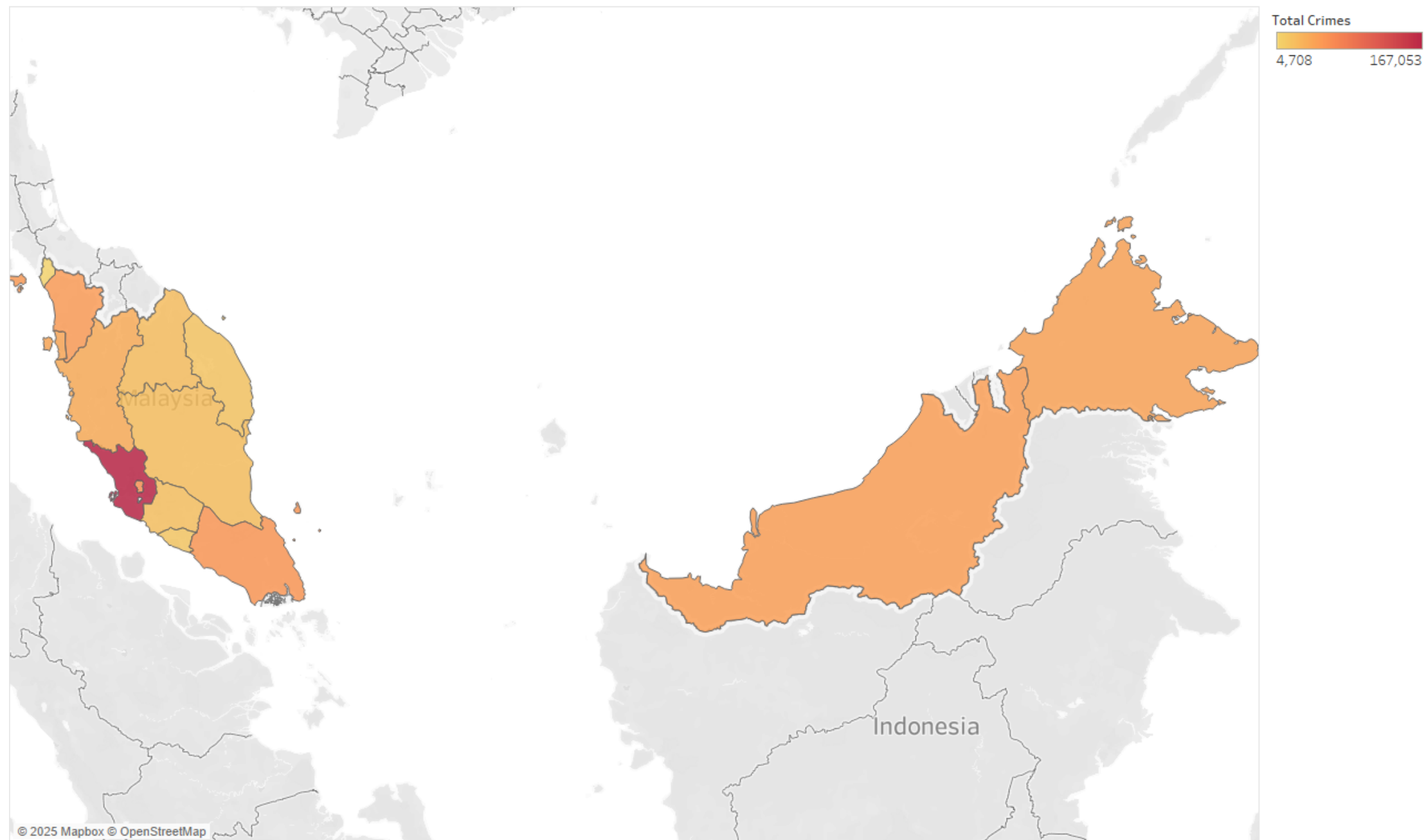
The trend of sum of Total Crimes for Year Year. Color shows details about Sub Category. The view is filtered on Year Year, which keeps 2021, 2022 and 2023.

Crime Sub-Category Breakdown by State



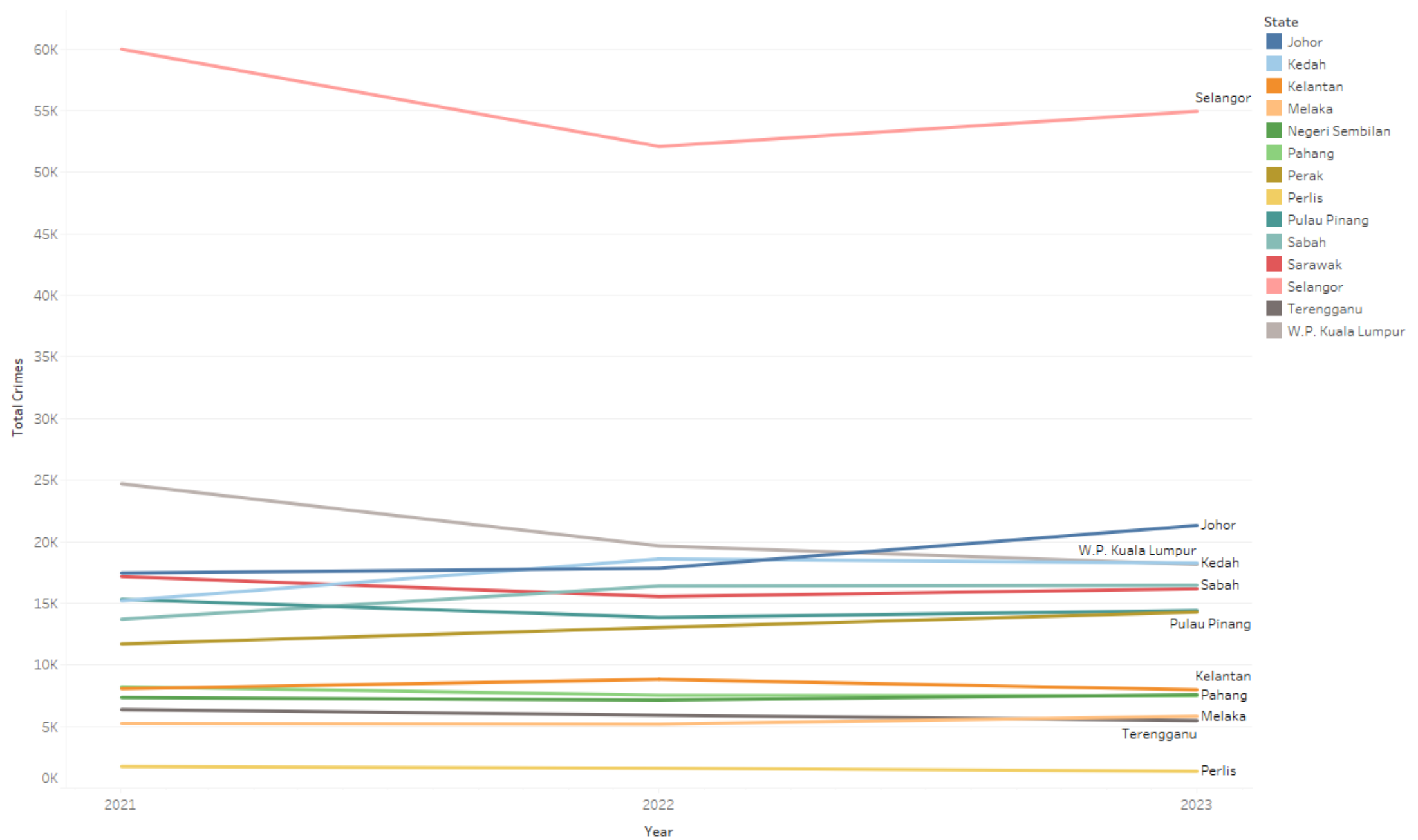
Sum of Total Crimes for each State. Color shows details about Sub Category. The data is filtered on Year Year and Exclusions (Category,State). The Year Year filter keeps 2021, 2022 and 2023. The Exclusions (Category,State) filter keeps 28 members. The view is filtered on Sub Category, which excludes Total.

Crime Hotspots Across States in Malaysia (2021–2023)



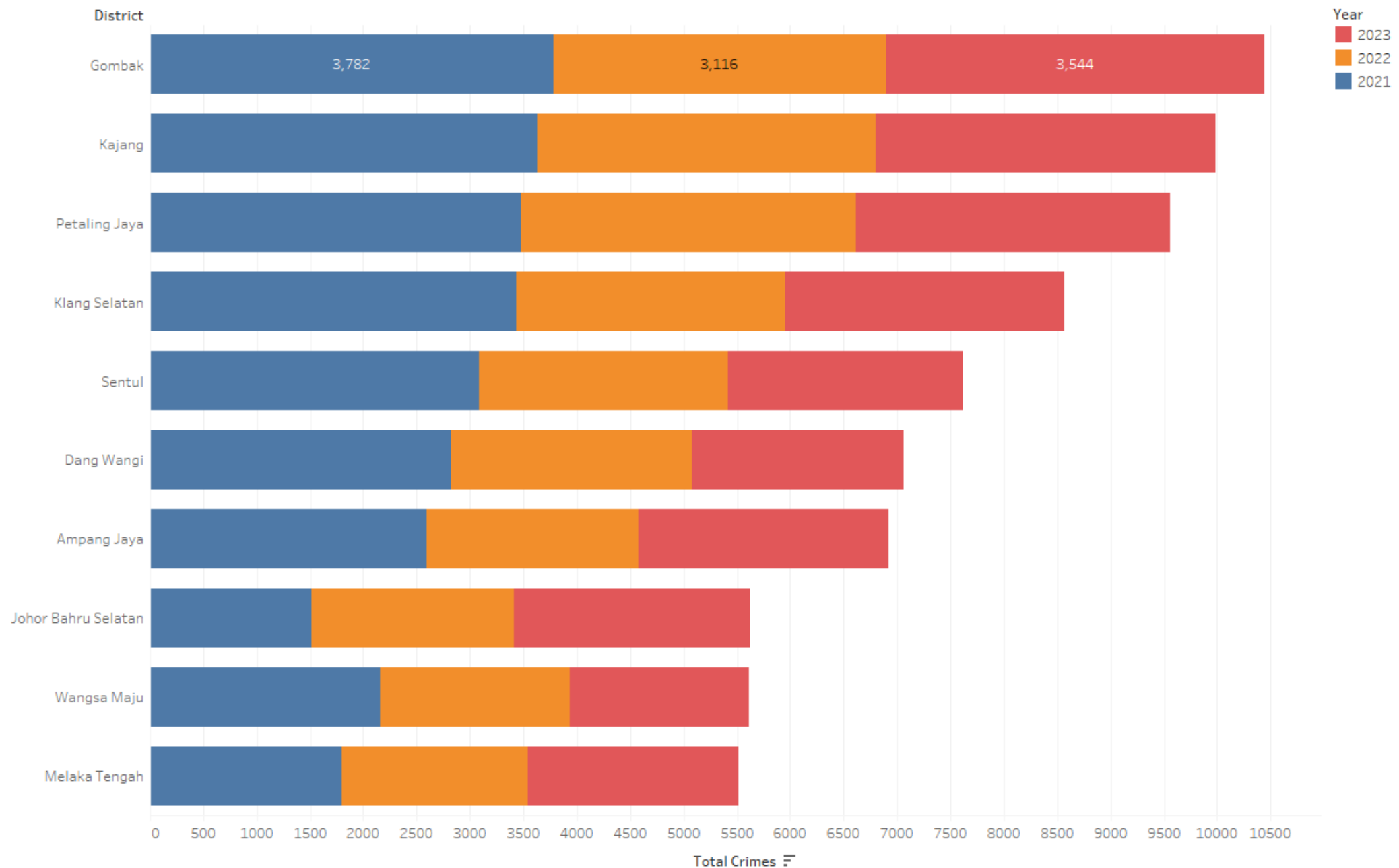
Map based on Longitude (generated) and Latitude (generated). Color shows sum of Total Crimes. Details are shown for State and Country. The data is filtered on Year Year and Action (District, YEAR(Year)). The Year Year filter keeps 2021, 2022 and 2023. The Action (District, YEAR(Year)) filter keeps 1,256 members. The view is filtered on State, which excludes Malaysia and Null.

Crime Trends by State in Malaysia (2021-2023)



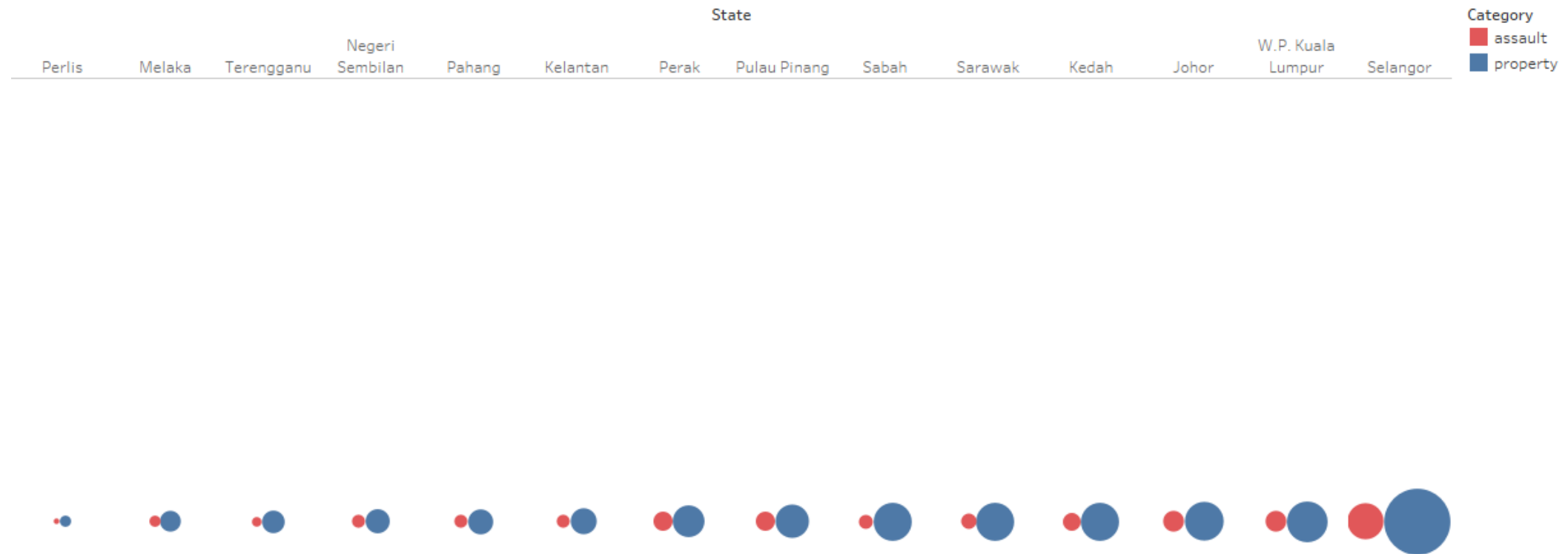
The trend of sum of Total Crimes for Year Year. Color shows details about State. The marks are labeled by State. The view is filtered on Year Year and State. The Year Year filter ranges from 2021 to 2023. The State filter keeps 14 members.

Top 10 Crime Rates Across Districts in Malaysia (2021–2023)



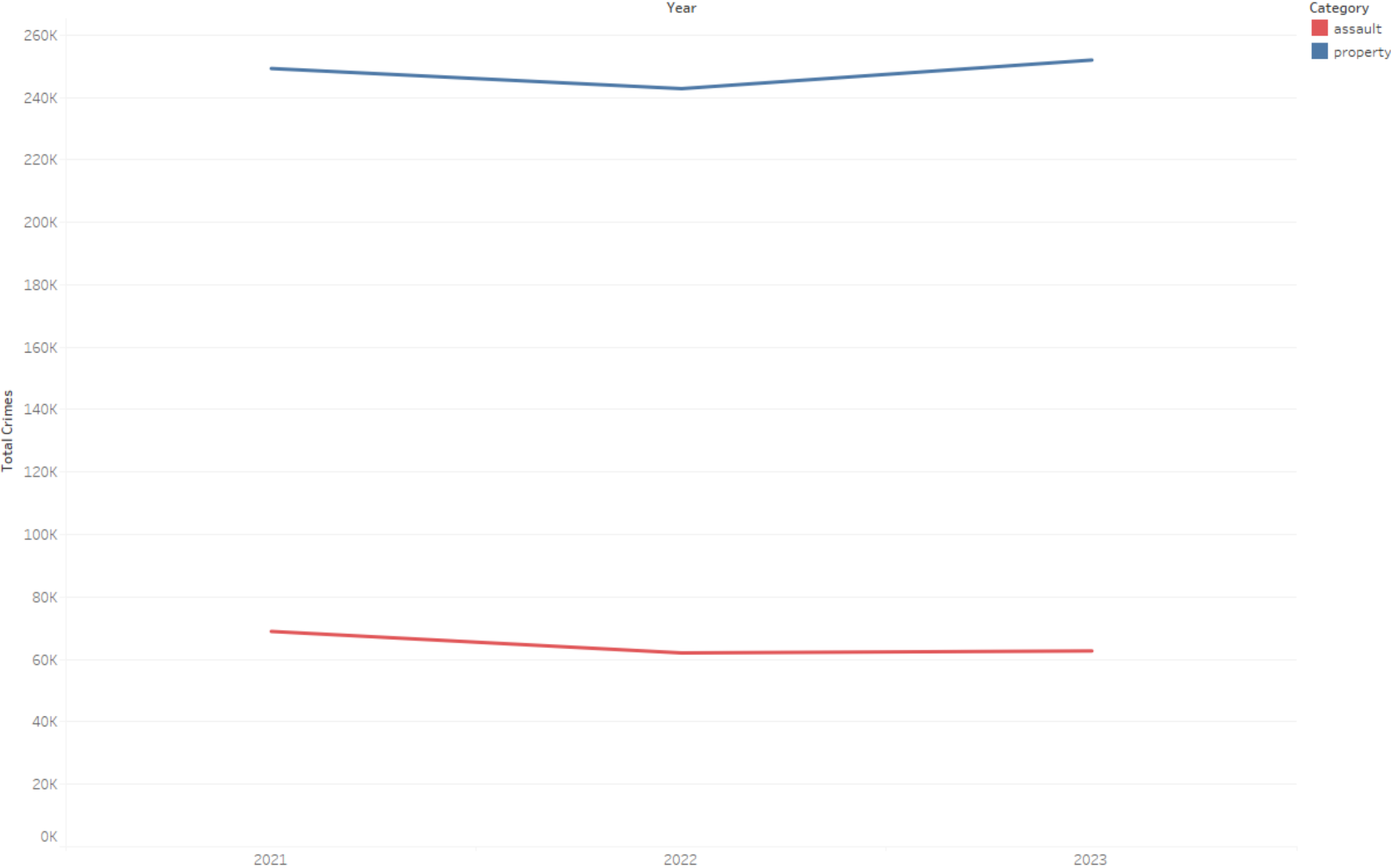
Sum of Total Crimes for each District. Color shows details about Year Year. The marks are labeled by sum of Total Crimes. The view is filtered on Year Year and District. The Year Year filter keeps 2021, 2022 and 2023. The District filter keeps 10 of 160 members.

Total Crime Intensity Across Malaysian States (2021–2023)



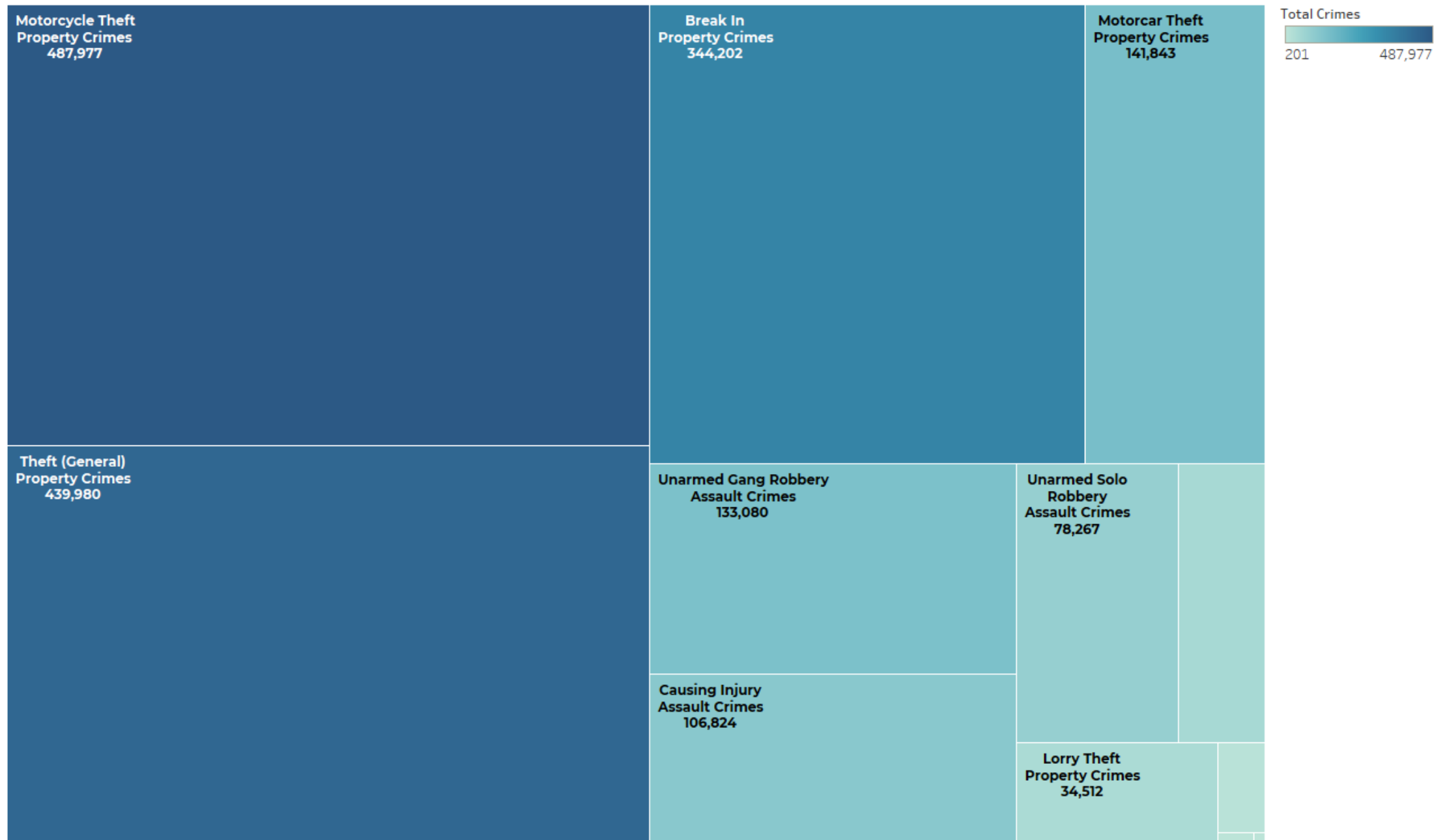
Category (color) and sum of Total Crimes (size) broken down by State. Details are shown for Category. The data is filtered on Year Year, which keeps 2021, 2022 and 2023. The view is filtered on State and Category. The State filter keeps 14 members. The Category filter keeps assault and property.

Annual Trends in Assault vs. Property Crimes (2021-2023)



The trend of sum of Total Crimes for Year Year. Color shows details about Category. The view is filtered on Year Year, which keeps 2021, 2022 and 2023.

Top Crime Sub-Categories in Malaysia (2021–2023)



Sub Category, Crime Category and sum of Total Crimes. Color shows sum of Total Crimes. Size shows sum of Total Crimes. The marks are labeled by Sub Category, Crime Category and sum of Total Crimes. The view is filtered on Sub Category, which excludes Total.

Objective 1: To analyze the annual crime trends in Malaysia between 2021 and 2023

Overview

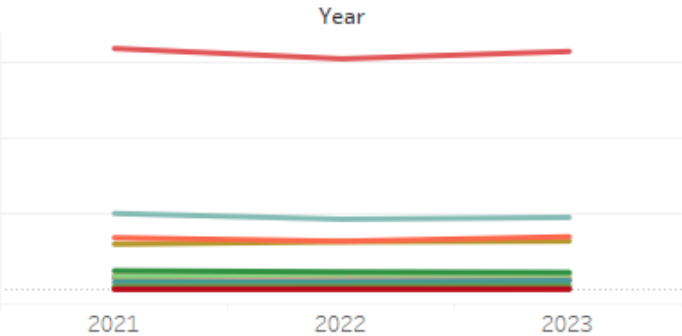
Total Crimes Reported (2021-2023):
Over 300,000 crimes were recorded across Malaysia between 2021 and 2023.

Most Common Crime Sub-Category:
Theft (General) are the most reported crime sub-categories during this period.

Top State by Crime:
Selangor consistently leads in total crimes reported, followed by W.P. Kuala Lumpur.

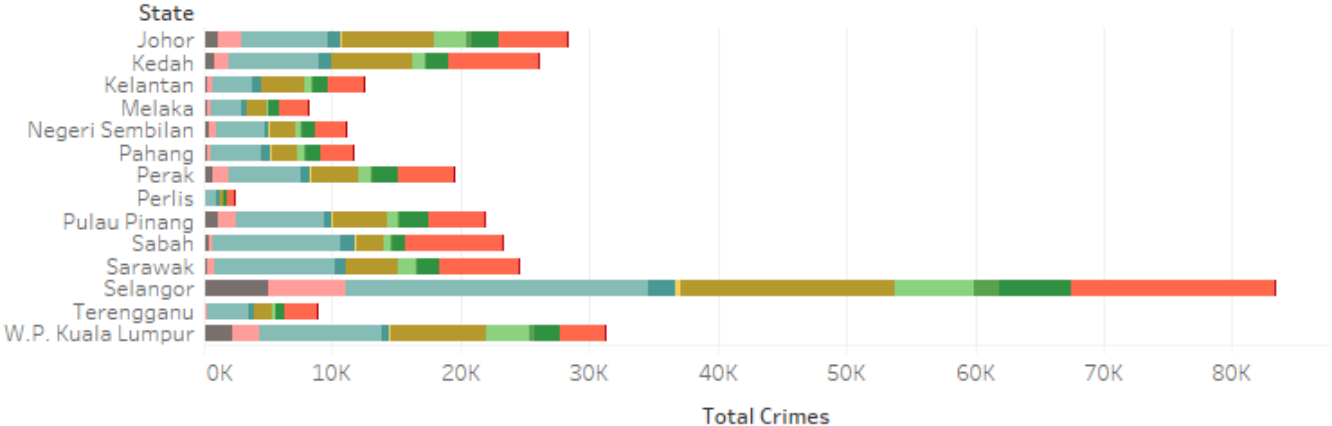


Crime Trends Over Time



While total crimes slightly declined in 2022, there was an increase in 2023, indicating fluctuating crime rates.

Crime Sub-Category Breakdown by State



Selangor reports the highest crime rate across most sub-categories, suggesting the need for focused law enforcement strategies in this region.

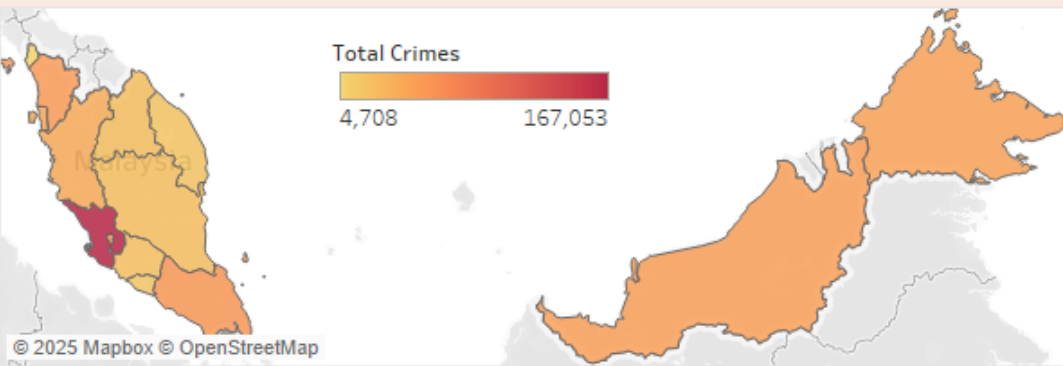
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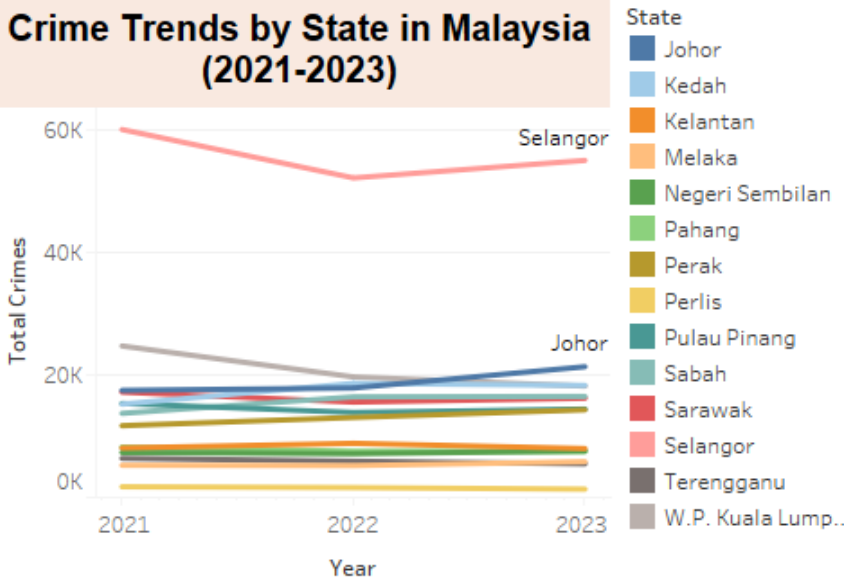
Geographic Distribution of Crime:
Selangor stands out as the state with the **highest** crime intensity, followed by W.P. Kuala Lumpur. Eastern states like Kelantan & Terengganu report relatively **lower** crime rates.

Broader Regional Trends:
The **West Coast** of Peninsular Malaysia (e.g., Selangor, W.P. Kuala Lumpur) has significantly **higher** crime rates compared to the **East Coast**.

Crime Hotspots Across States in Malaysia (2021–2023)

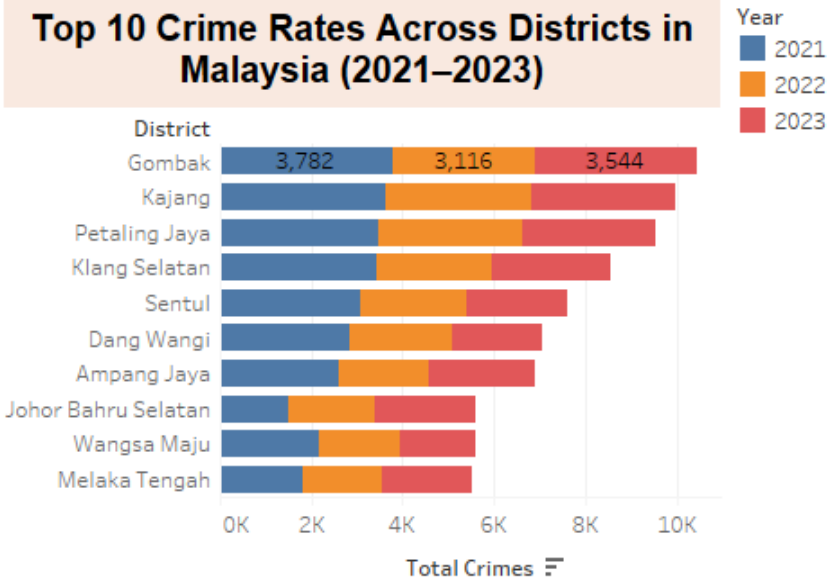


Crime Trends by State in Malaysia (2021–2023)



- Selangor remains the **highest** crime hotspot, with a **dip** in 2022 and a **resurgence** in 2023.
- Kedah, Perlis, and Pulau Pinang show **minimal** fluctuations, indicating stability.
- Crime rates in W.P. Kuala Lumpur remain **high** yet stable compared to Selangor.

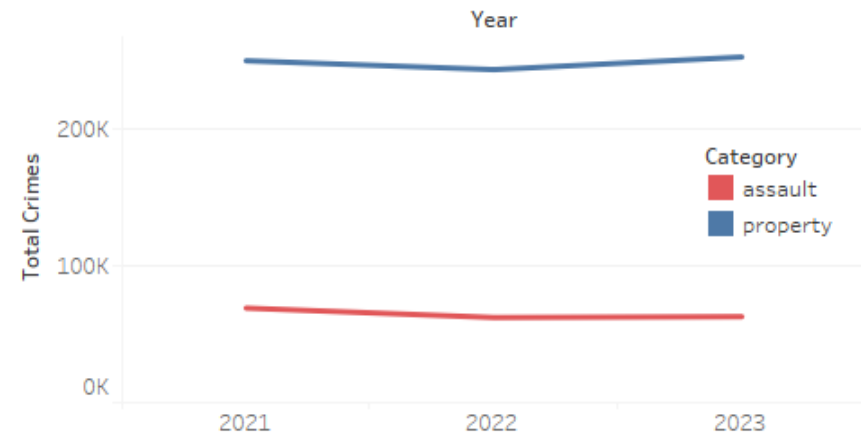
Top 10 Crime Rates Across Districts in Malaysia (2021–2023)



- Five Selangor districts (Gombak, Kajang, Petaling Jaya, Klang Selatan, Ampang Jaya) dominate the top 10, with Gombak **leading** and **peaking** in 2023.
- Three W.P. Kuala Lumpur (Sentul, Dang Wangi, and Wangsa Maju) significantly contribute to the top 10.
- Kajang and Petaling Jaya show steady growth, while Klang Selatan experiences a **sharp rise** in 2023.

Objective 3: To examine the relationship between different types of crime (assault vs property crimes) and their distribution across states in Malaysia

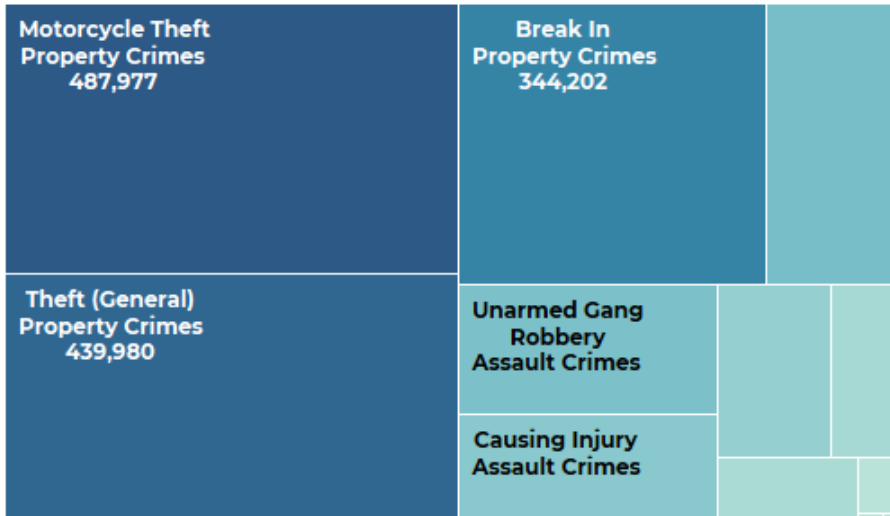
Annual Trends in Assault vs. Property Crimes



Property crimes decreased by 12% in 2022 but rebounded in 2023, indicating possible impacts of law enforcement strategies or economic factors. Assault crimes show stability over the years, with slight fluctuations indicating regional variations

The clear trend difference between the two crime categories suggests the need for differentiated resource allocation—prioritizing property crime prevention while maintaining focus on assault crime hotspots.

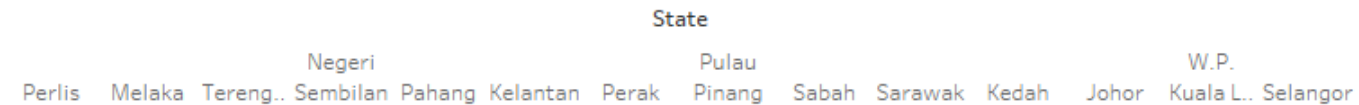
Breakdown of Crime Categories



With 487,977 incidents, motorcycle theft emerges as the most significant sub-category of property crimes. This suggests that targeted measures, such as enhanced vehicle security and anti-theft campaigns, should be prioritized.

Within assault crimes: Unarmed gang robbery leads with 133,080 incidents, highlighting the need for community policing and better surveillance in vulnerable areas.

Overview of Crime Intensity



Selangor and Kuala Lumpur exhibit the largest crime volumes, driven predominantly by property crimes. Smaller states like Perlis and Kelantan have significantly lower crime rates, indicating potential disparities in crime reporting or density-related factors

References: Polis Diraja Malaysia (PDRM), Department of Statistics Malaysia (DOSM)



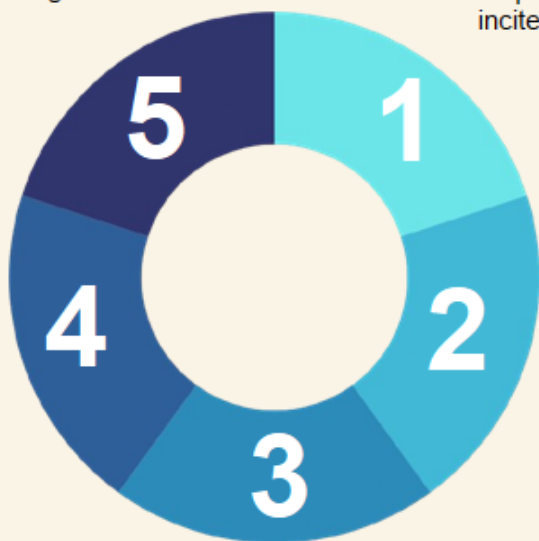
5 STEPS FOR CITIZENS TO FOLLOW

Adopt Crime Prevention Practices:

Secure personal property, such as using anti-theft devices for vehicles and reinforcing home security systems. Avoid high-risk areas at night and be vigilant in crowded public spaces.

Promote Inclusivity and Unity:

Encourage participation in community programs to reduce social isolation and build a sense of shared responsibility for safety. Report any activities that may incite violence or harm to local authorities.



Engage in Community Policing:

Volunteer for or support neighborhood watch programs to deter crimes in your area. Organize community events that promote safety and foster relationships with local law enforcement.

Educate and Advocate:

Teach children and family members about the importance of crime prevention and how to stay safe in public spaces. Advocate for community-driven initiatives, such as better lighting or CCTV installation in your neighborhood.

Actively Report Crimes:

Use available reporting tools like police hotlines or mobile apps for quick and anonymous crime reporting. Participate in community forums to share information about suspicious activities.

Strategic Initiatives for Crime Reduction by Authorities

1 Enhance Law Enforcement:

- Increase police presence and patrols in high-crime districts such as Gombak, Kajang, and Petaling Jaya.
- Implement community policing programs to build trust between law enforcement and citizens.



2 Improve Crime Prevention Infrastructure:

- Install additional CCTV cameras in public spaces and urban areas prone to theft and assault crimes.
- Upgrade street lighting and public transport security systems in areas like Selangor and Kuala Lumpur.



3 Strengthen Legislation:

- Introduce stricter penalties for repeat offenders, particularly for property crimes like motorcycle theft.
- Pass laws requiring the use of advanced anti-theft devices on motorcycles and other vehicles.



4 Community Awareness Campaigns:

- Launch nationwide campaigns to educate the public about crime prevention strategies, such as securing property and reporting crimes.
- Work with media platforms to share tips on avoiding theft and improving personal safety.



5 Data-Driven Policy Making:

- Leverage crime trend data to allocate resources and identify emerging crime hotspots.
- Collaborate with universities and research institutions to conduct periodic crime analysis for proactive measures.



CONCLUSION



Key Insights:

Selangor and W.P. Kuala Lumpur consistently report the highest crime rates, driven by property crimes like motorcycle theft. High-crime districts such as Gombak and Kajang require focused attention to reduce crime intensity and improve safety. While property crimes show fluctuations, assault crimes remain relatively stable, indicating a need for targeted community efforts.



Broader Implications:

Addressing crime in high-density urban areas will likely reduce national crime rates overall. Maintaining low crime rates in smaller states like Perlis and Kelant..



Future Focus:

Policy-makers and law enforcement agencies should adopt a data-driven approach to prioritize interventions in high-crime regions and categories. Collaboration with communities and stakeholders can amplify efforts to ensure long-term safety and security nationwide.

TEAM NAME - STAY SAFE 4 LIFE (SS4L)



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TEAM LEADER



AHMAD ADLAN BIN ABDUL HALIM 2215775
TEAM MEMBER 1



MUHAMMAD IKMAL HAKIMI BIN ROSLI 2210827
TEAM MEMBER 2



MUHAMMAD IRFAN BIN ZAKARIA 2120199
TEAM MEMBER 3

Storyboard

It's time to get started

So, what is the problems?

These are the objectives of this research

To analyze the annual crime trends in Malaysia

To identify crime hotspots and regional variations in crime pa...

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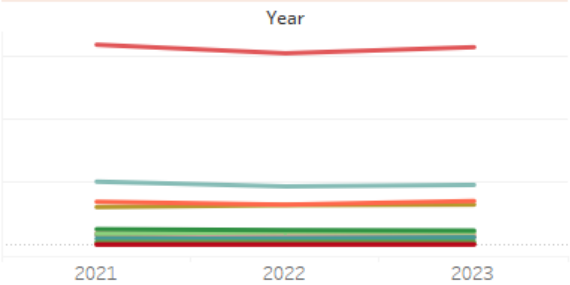
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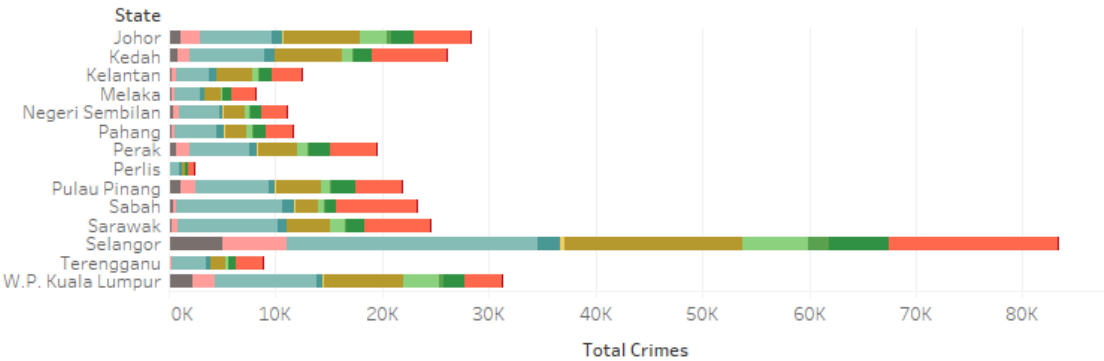
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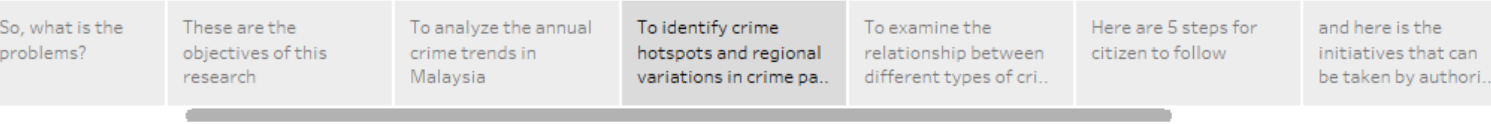
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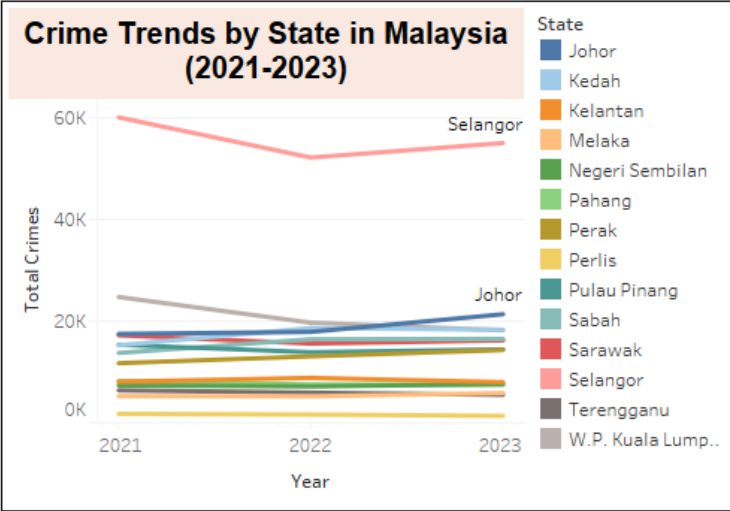
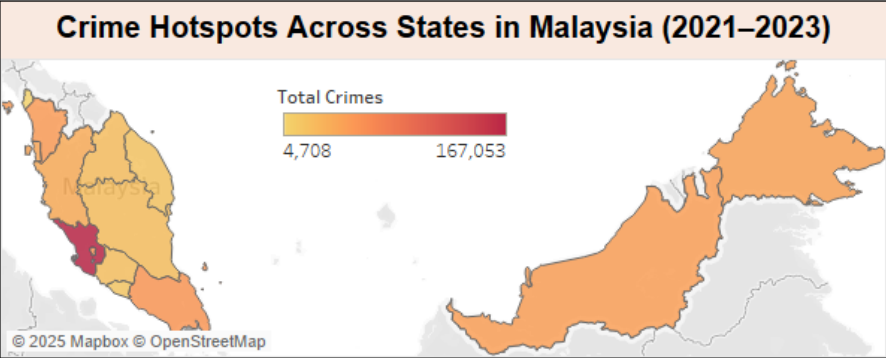


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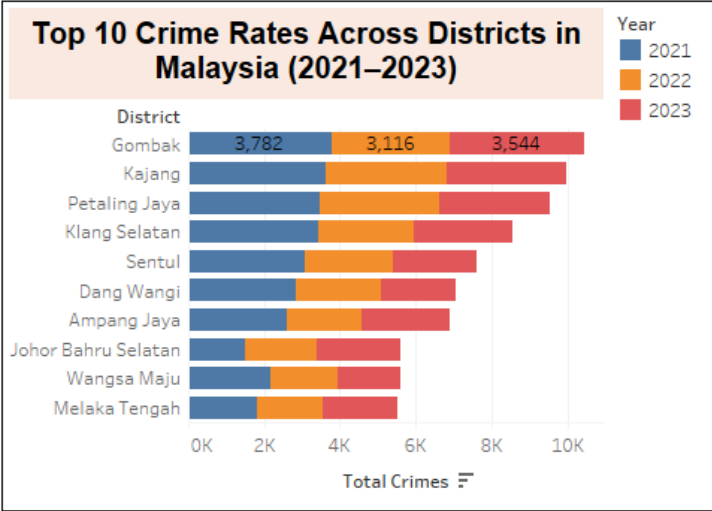
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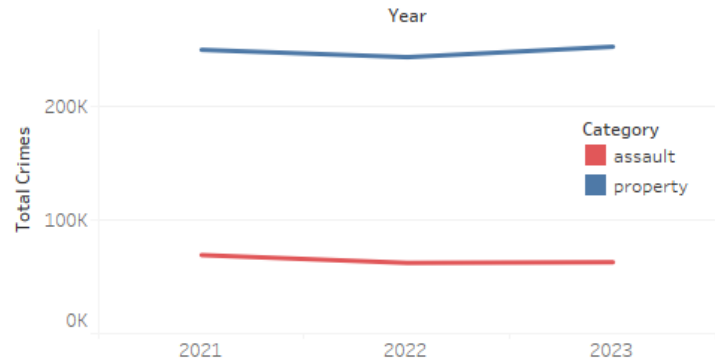
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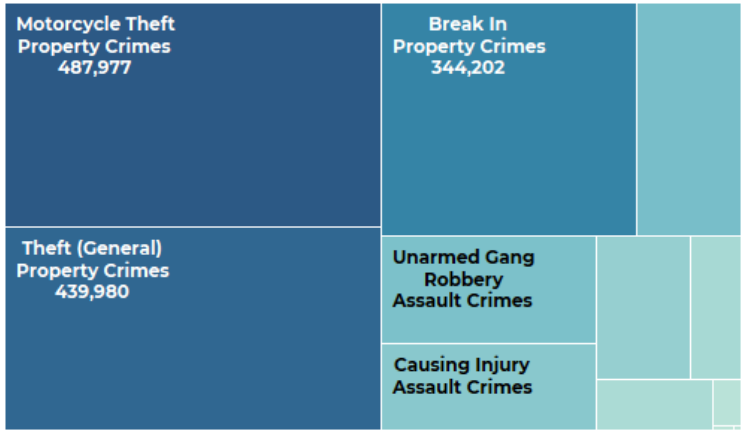
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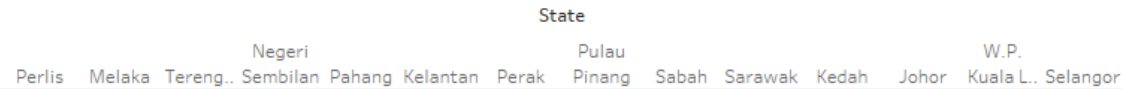
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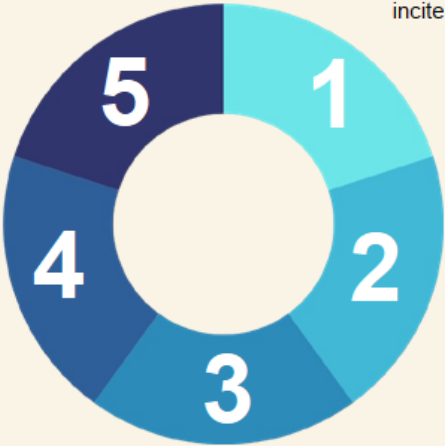
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