

South Africa Crime Analysis Dashboard

Project Summary:

I developed an interactive Power BI dashboard to analyze crime trends across South Africa's provinces and crime categories over multiple financial years. The report provides stakeholders with clear insights into:

- Year-over-year changes in crime incidents.
- Provincial crime rates normalized by population.
- Top crime categories driving overall trends.
- Regional performance compared to national averages.

Key features include dynamic filtering by province, crime type, and year, visual drilldowns into crime hotspots, and actionable KPIs to support decision-making for law enforcement and public safety strategies.

The project demonstrates my skills in:

- Data modeling and DAX calculations.
- Designing clean, intuitive dashboards.
- Using advanced analytics techniques to uncover patterns and insights.
- Storytelling with data to drive informed actions.

Tools Used:

- Microsoft Power BI
- DAX (Data Analysis Expressions)

- Data Cleaning and Shaping in Power Query
- Time-Intelligence Functions (Year-over-Year Analysis)

Key Takeaways:

This dashboard empowers stakeholders to monitor crime trends in real-time, focus on high-risk areas, and allocate resources effectively, ultimately contributing to better public safety outcomes.