South Africa Crime Analysis Dashboard

Project Summary

I developed an interactive Power BI dashboard to analyse crime trends across South Africa. By analyzing multiple financial years of police-reported crime data, the dashboard highlights high-risk areas, top crime categories, and year-over-year patterns across all provinces.

The report allows users to filter by year, province, and crime category, with key performance indicators (KPIs) and time-intelligent DAX measures driving deep insights into where and how crime is evolving.

Tools Used:

Power BI -for data visualization

DAX- for advanced measures (YoY, % Change, Top N)

Power Query- for data transformation

Time intelligence modeling- using a custom FinancialYearTable

Key Insights:

- Gauteng and the Western Cape consistently report the highest crime volumes.
- Contact crimes (e.g., assault, robbery) dominate the top categories.
- Some provinces experienced a significant year-over-year increase despite national declines.
- The interactive report supports drilldowns for deeper exploration at regional or category level.

The project shows that I can turn complex public data into clear, actionable insights using Power BI, while applying strong analytical thinking, data modeling, and storytelling skills.

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