

COVID-19 Impact Analysis in Pakistan

Tools:

Python (pandas), Power BI

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Objective

The objective of this project is to analyze the spread and impact of COVID-19 in Pakistan using confirmed cases, deaths, recoveries, and travel history data to identify trends, hotspots, and high-risk regions.

Dataset Description

- Source: Pakistan COVID-19 dataset
- Columns:
 - Date
 - Cases
 - Deaths
 - Recovered
 - Travel History
 - Province
 - City

Tools & Technologies

- Python (pandas) – data cleaning and analysis
- Power BI – data visualization and dashboard creation

Key KPIs

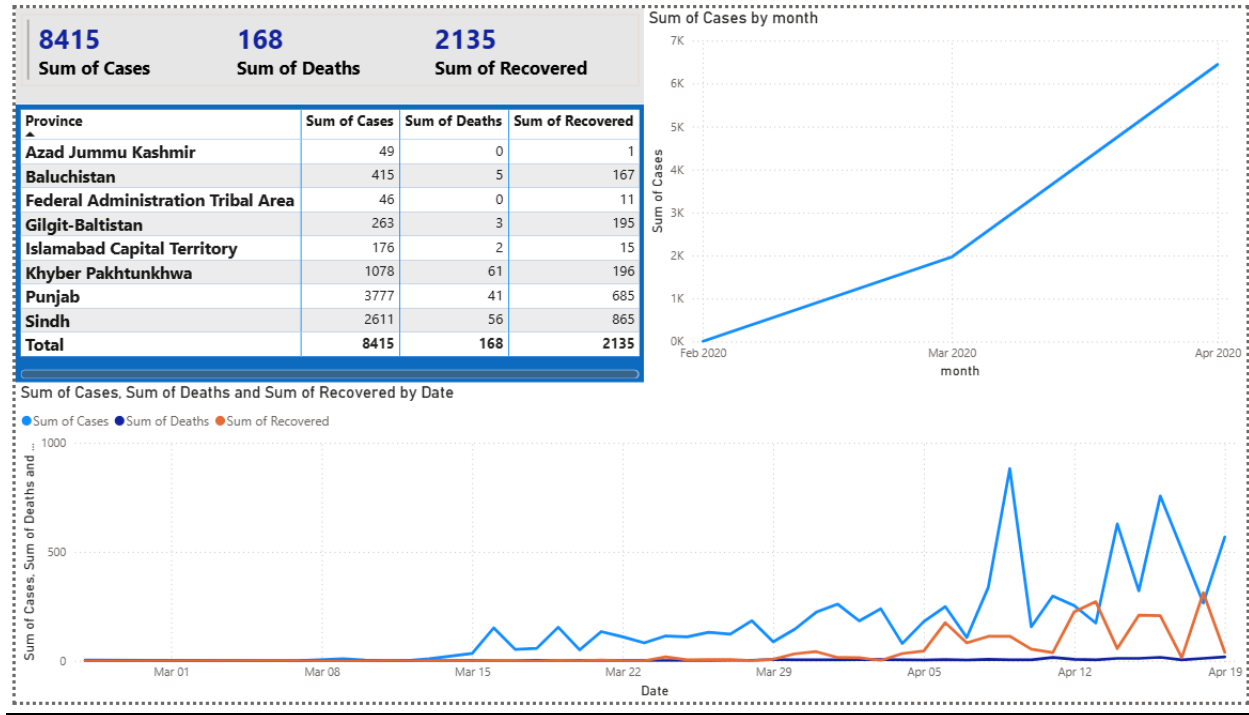
- Total Cases
- Total Deaths
- Total Recovered
- Recovery Rate (%)
- Death Rate (%)
- Peak Day and Peak Cases

Analysis & Insights

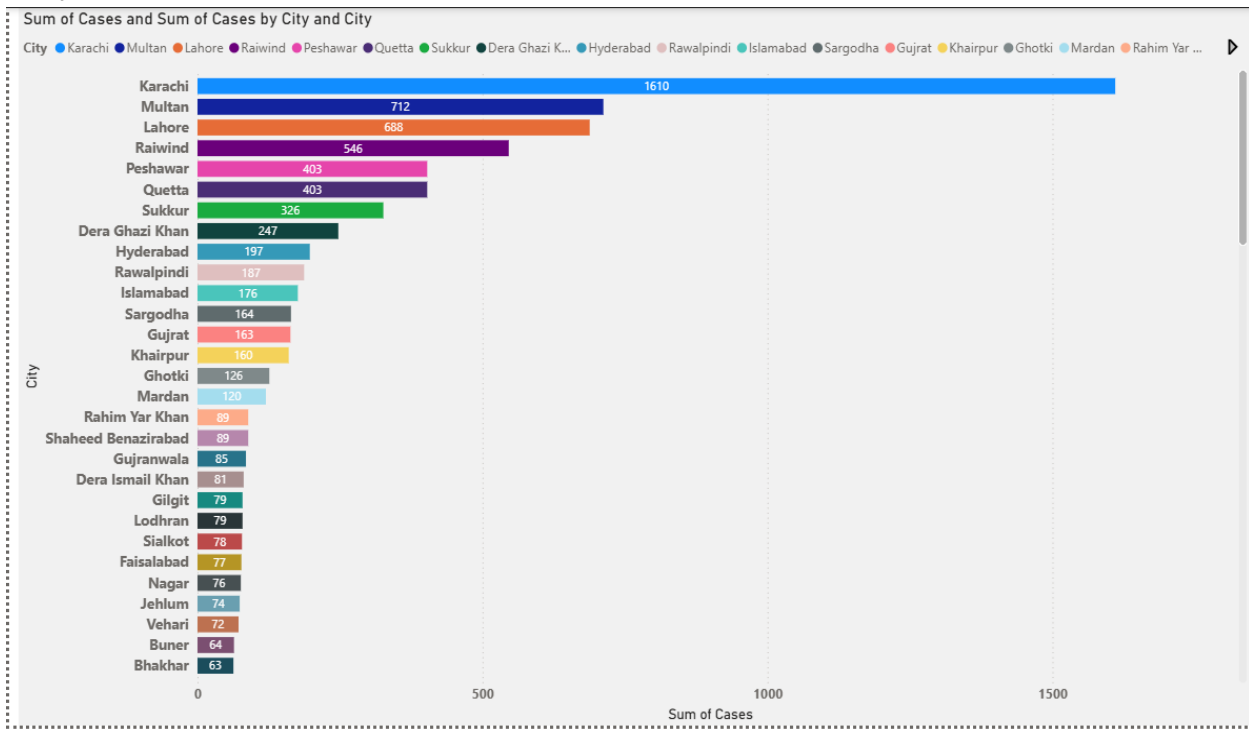
- COVID cases peaked during April.
- Punjab and Sindh were the most affected provinces.
- Karachi and Lahore emerged as major COVID hotspots.
- Recovery rate improved over time.
- Early spread showed strong linkage with travel history.
- COVID spread through social interactions among people.
- The death rate remained low, while the recovery rate was good.

Dashboard Snapshot

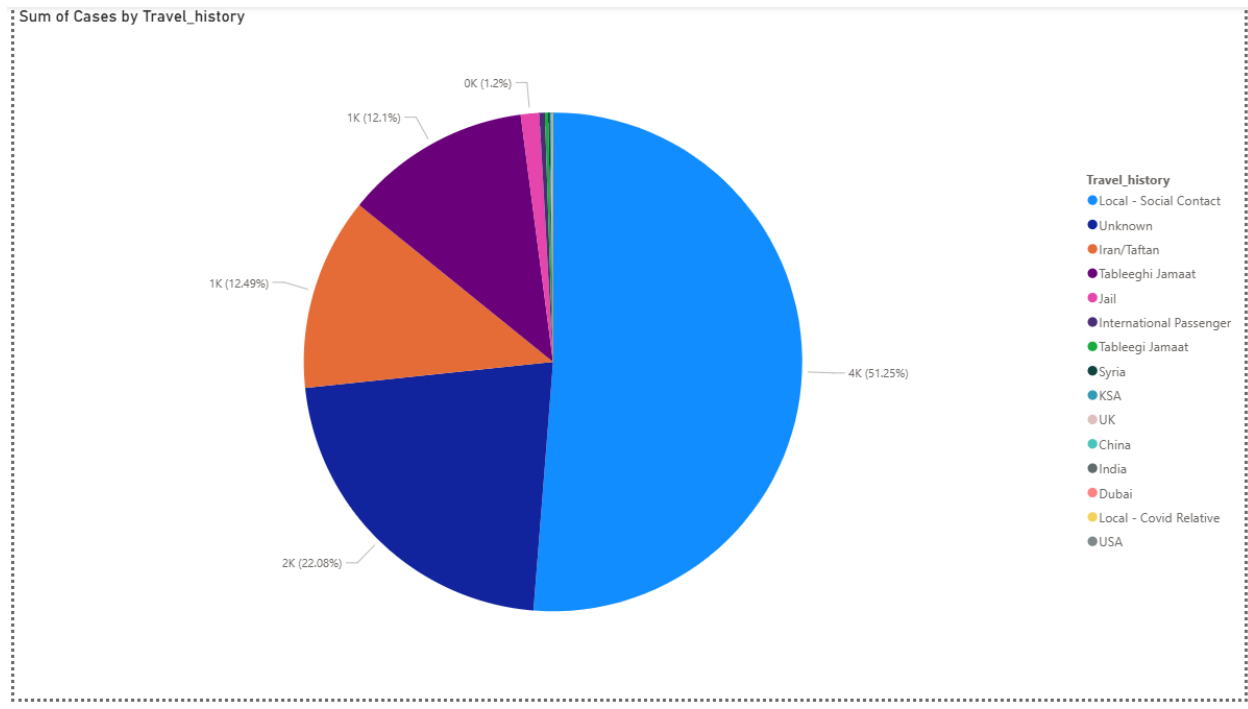
Overall Situation



City Wise Situation



Traveling Impact



Conclusion

This project provides a clear overview of COVID-19 trends and regional impact in Pakistan and demonstrates how data analytics can support data-driven insights.