Analyzing wait times for priority procedures

Analysis Objective:

↔Compare Performance b/w Major provinces

📈Analyse Trend over Years

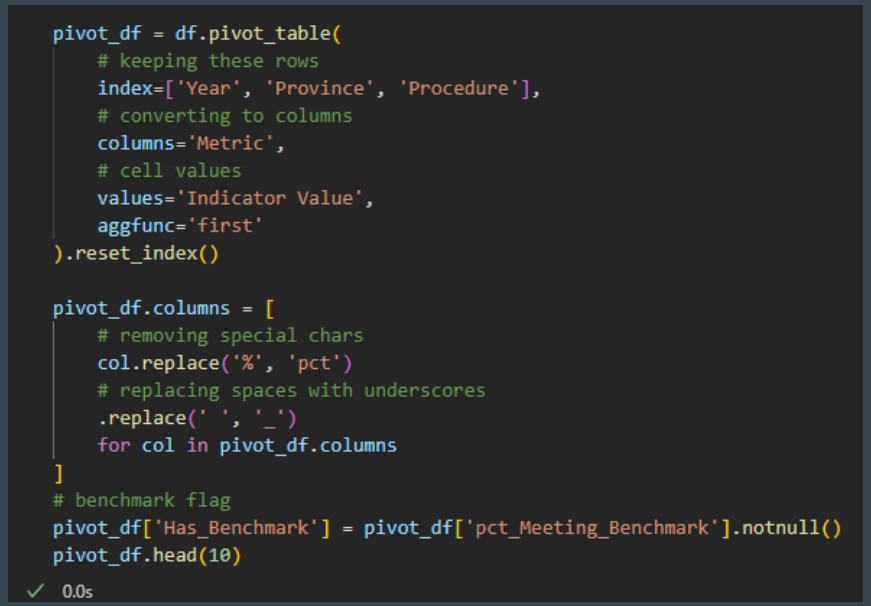
🏆Derive Procedure-Level Insights

Highlight Provinces

Source : Canadian Institute for Health Information. Wait Times for Priority Procedures in Canada, 2008–2024 — Data Tables. Ottawa, ON: CIHI; 2025.

Data Cleaning & Transformation

🧹 Removed metadata rows
🗓️ Fixed year formatting
🗑️ Dropped empty/irrelevant columns
🛠️ Reshaped data
🏷️ Renamed columns
🚩 Added flags



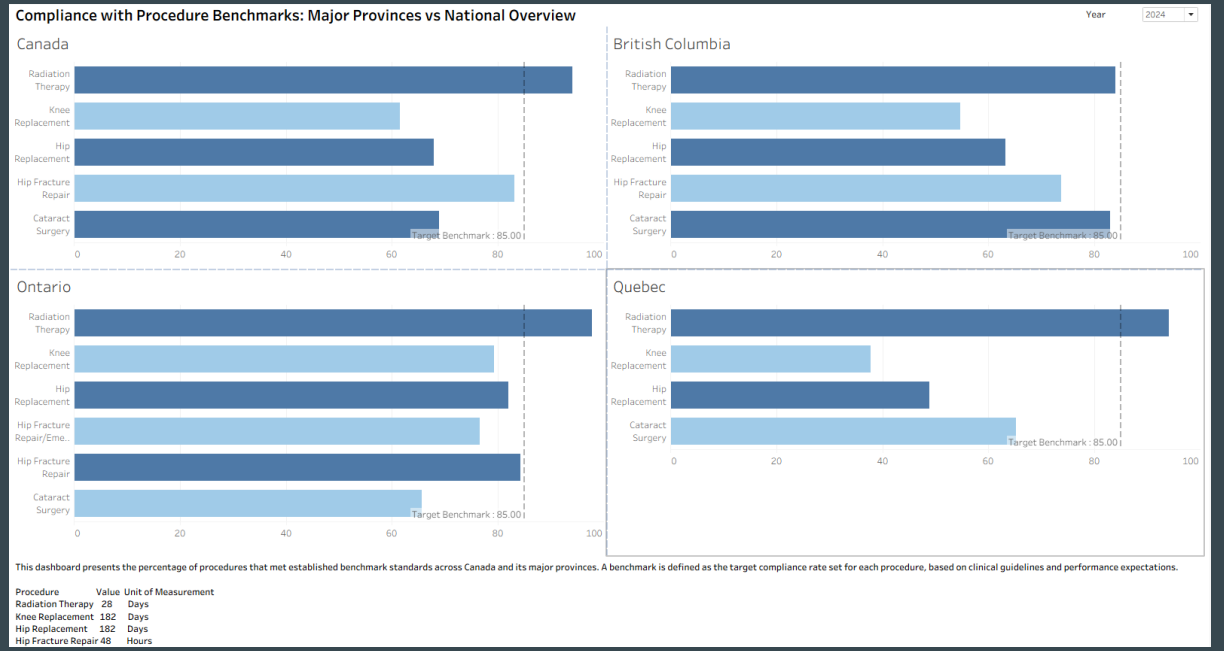
```
pivot_df = df.pivot_table(
    # keeping these rows
    index=['Year', 'Province', 'Procedure'],
    # converting to columns
    columns='Metric',
    # cell values
    values='Indicator Value',
    aggfunc='first'
).reset_index()

pivot_df.columns = [
    # removing special chars
    col.replace('%', 'pct')
    # replacing spaces with underscores
    .replace(' ', '_')
    for col in pivot_df.columns
]
# benchmark flag
pivot_df['Has_Benchmark'] = pivot_df['pct_Meeting_Benchmark'].notnull()
pivot_df.head(10)
```

✓ 0.0s

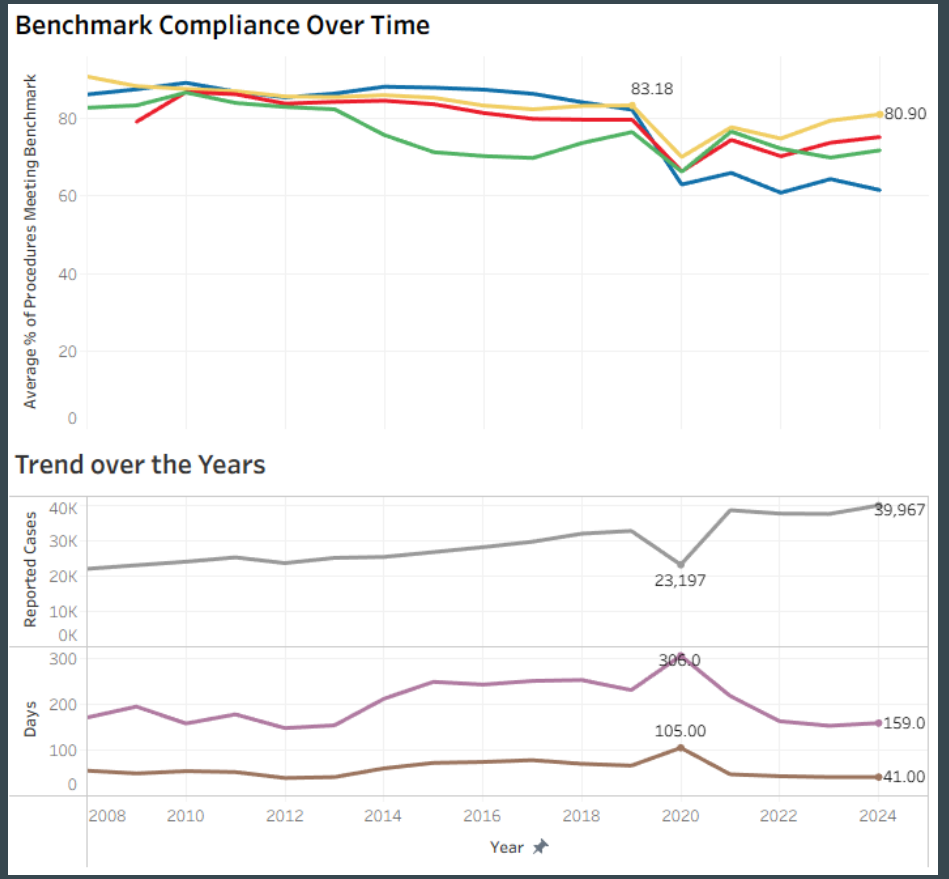
Benchmark Compliance Analysis

- 🚨 Nationwide Shortfall
- 🥇 Ontario Leads
- ⚠️ Orthopedic Crisis
- ☢️ Radiation Therapy



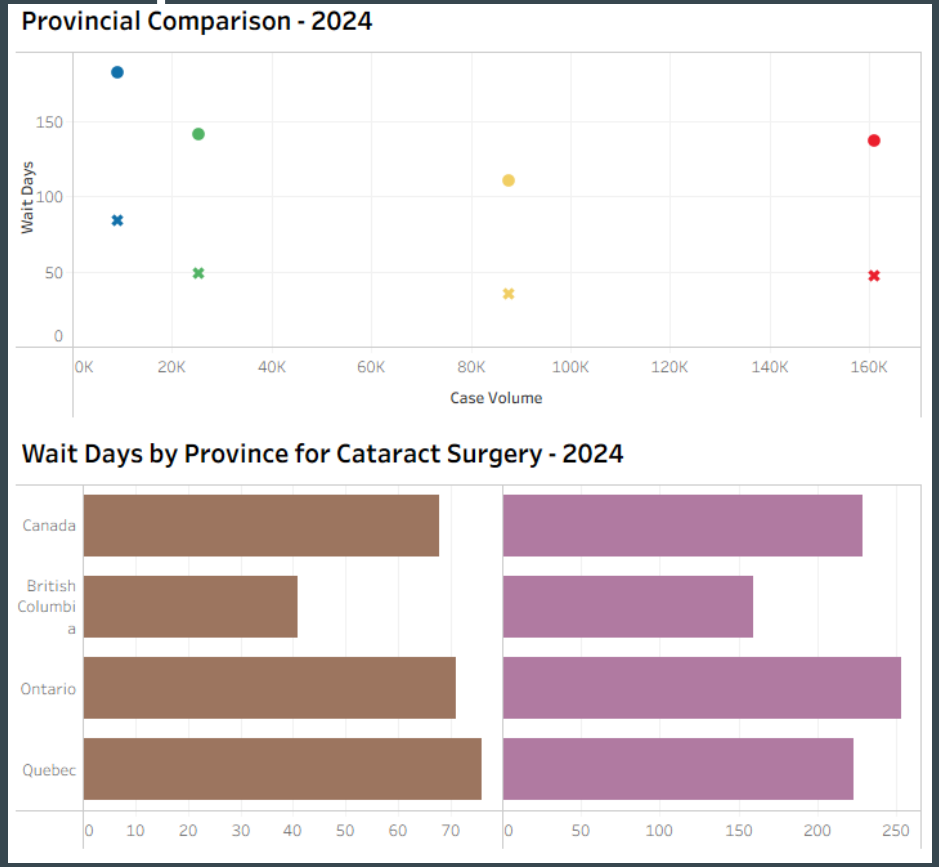
Trends in Wait Times & Backlog

- ⏳ Persistent Delays
- 🚑 Human Impact
- ⚠️ Elevated Waits
- 📈 Volume Surge



Provincial Comparisons & Detailed Report

- 🏆 ON Excels
- ⚠️ QC Underperforms
- 📊 BC Mid-Performer



Key Recommendations

🦴 Prioritize Orthopaedic Reform
💰 Scale cost-effective procedures
📱 Adopts Ontario's playbook
🔍 Targeted backlog analysis