Interprovincial COVID-19 Data Analysis

CPSC 547 Pitch
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September 29th, 2021
Problem

- In Canada, the COVID data is handled by each province
- Comparing and contrasting different provincial data is difficult
Vaccination rates across Canada

- Google.ca
  - Data only for all of Canada

Map of vaccinations
From Our World in Data · Last updated: 2 days ago

Canada
Total doses given 56M
People fully vaccinated 26.9M
% fully vaccinated 71.5%
Vaccination rates across Canada

- Google.ca
  - Data only for all of Canada
- health-infobase.canada.ca
  - Data by province
Vaccination rates across Canada

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- bccdc.ca
  - Data by region for only BC
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- alberta.ca
  - Data by region for only Alberta
# Vaccination rates across Canada

<table>
<thead>
<tr>
<th>Region</th>
<th>1st Doses Given</th>
<th>Fully Vaccinated</th>
<th>Total Doses Given</th>
</tr>
</thead>
<tbody>
<tr>
<td>Far North West</td>
<td>14,202</td>
<td>11,619</td>
<td>25,821</td>
</tr>
<tr>
<td>Far North Central</td>
<td>1,402</td>
<td>910</td>
<td>2,312</td>
</tr>
<tr>
<td>Far North East</td>
<td>12,672</td>
<td>9,971</td>
<td>22,643</td>
</tr>
<tr>
<td>North West</td>
<td>54,805</td>
<td>44,263</td>
<td>99,068</td>
</tr>
<tr>
<td>North Central</td>
<td>55,937</td>
<td>48,851</td>
<td>104,788</td>
</tr>
<tr>
<td>North East</td>
<td>27,919</td>
<td>25,127</td>
<td>53,046</td>
</tr>
<tr>
<td>Saskatoon</td>
<td>225,912</td>
<td>266,989</td>
<td>492,821</td>
</tr>
<tr>
<td>Central West</td>
<td>23,855</td>
<td>21,545</td>
<td>45,400</td>
</tr>
<tr>
<td>Central East</td>
<td>64,671</td>
<td>58,750</td>
<td>123,421</td>
</tr>
<tr>
<td>Regina</td>
<td>190,320</td>
<td>174,919</td>
<td>365,239</td>
</tr>
<tr>
<td>South West</td>
<td>23,941</td>
<td>21,254</td>
<td>45,195</td>
</tr>
<tr>
<td>South Central</td>
<td>40,484</td>
<td>36,771</td>
<td>77,255</td>
</tr>
</tbody>
</table>

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- [alberta.ca](https://alberta.ca)  
  - Data by region for only Alberta
- [dashboard.saskatchewan.ca](https://dashboard.saskatchewan.ca)  
  - Data by region for only Saskatchewan
Vaccination rates across Canada

I cannot effectively compare provincial data across multiple platforms
Project Goals

• Consolidate data across Canada into one platform

• Show data on case rates, vaccination rates and R rates by region

• Allow comparison of regions across multiple provinces based on population density, age demographics or mask mandates

• Show changes in rates over time by regions

• If possible, offer insight into region based restrictions (mask mandates, restaurant availability, event capacity limits, etc.)
Thank you!