INTEGRATION DOCUMENTATION

TACKLING VACCINACION DISPARITIES

1. OVERVIEW

This document outlines the process of integrating SQL-based vaccination data analysis with Microsoft Excel for visualization and insights. It covers data export, import, pivot table creation, and dashboard development.

2. DATA EXPORT FROM SQL

To analyze vaccination data in Excel, we first export our database tables as CSV files.

Steps:

i. Run SQL Queries – Execute the following SQL queries to extract data:

```
SELECT * FROM Community;

SELECT * FROM Vaccination;

SELECT * FROM Demographics;
```

ii. Export as CSV – Use the following command (for MySQL/PostgreSQL):

```
SELECT * FROM Community INTO OUTFILE 'Community.csv'

FIELDS TERMINATED BY ',' ENCLOSED BY ""

LINES TERMINATED BY '\n';
```

(Repeat for other tables: Vaccination.csv, Demographics.csv)

3. IMPORTING DATA INTO EXCEL

Steps:

i. Open Microsoft Excel
ii. Go to Data > Get Data > From Text/CSV
iii. Select the exported CSV file and click Load

Repeat for all CSV files (Community, Vaccination, Demographics)

4. DATA ANALYSIS USING PIVOT TABLES

Creating Pivot Tables:

1. Go to Insert > PivotTable
2. Select the imported data range
3. Drag fields to the PivotTable Fields panel:
    i. Total Vaccination Doses per Community
    ii. Trends by Month
    iii. Demographic Comparisons

Adding Charts:

1. Bar Charts – Compare vaccination rates by age group
2. Line Graphs – Show trends in vaccination over time
3. Pie Charts – Visualize community-level distribution

5. Canva Presentation Link

☞ https://www.canva.com/design/DAGeEMNjA9c/u-F9eWnPRtZAYVZXb0Undg/view?utm_content=DAGeEMNjA9c&utm_campaign=designshare&utm_medium=link2&utm_source=uniquelinks&utlId=h8acc126947