



Serving Sonoma, Napa, Marin & Yolo Counties

Getting Messy with SQL Reporting: Preventive Breast Imaging

Presented By: Nicholas Alonzo
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Background Briefing

Audience:

This training is targeted for participants using a SQL reporting system (e.g., Relevant, Microsoft SSRS) with intermediate to advanced knowledge of PostgreSQL and common EHR database tables (Data analysts/programmers with more than 9 months of experience).

Prerequisites:

Participants must have access to a PostgreSQL database (e.g., Relevant) and software for interacting with databases (e.g., DataGrip, DBeaver). Participants should know how to connect to databases and run queries in their software environment.



Setup & Materials

1. You should have the following CSV files imported into your PostgreSQL database
 - *demo_breast_imaging.csv*
 - *demo_clinics.csv*
 - *demo_doctors.csv*
 - *demo_external_breast_imaging.csv*
 - *demo_patients.csv*
2. You should have your software editor open and `Code-Along.sql` loaded. You can also open the *Hands-On SQL Exercise.pdf* file for reference.



Agenda & Goals

Introduction

- Hands-On SQL Exercise
- Demo Data
- Code-Along SQL Script

Hands-On

- Joining Data
- Regular Expressions

Break (15 minutes)

Hands-On

- Extracting Data
- Output Data

Evaluation (5 minutes)

- Identify the problem / end goal and translate it to SQL
- Organize SQL queries into logical steps
- Identify built-in PostgreSQL functions for working with messy data
- Design output for end-user usage



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Hands-On Code-Along



THANK YOU

**For further inquiries on trainings
or consulting, contact Nicholas Alonzo**

nicholas@diversifyds.org