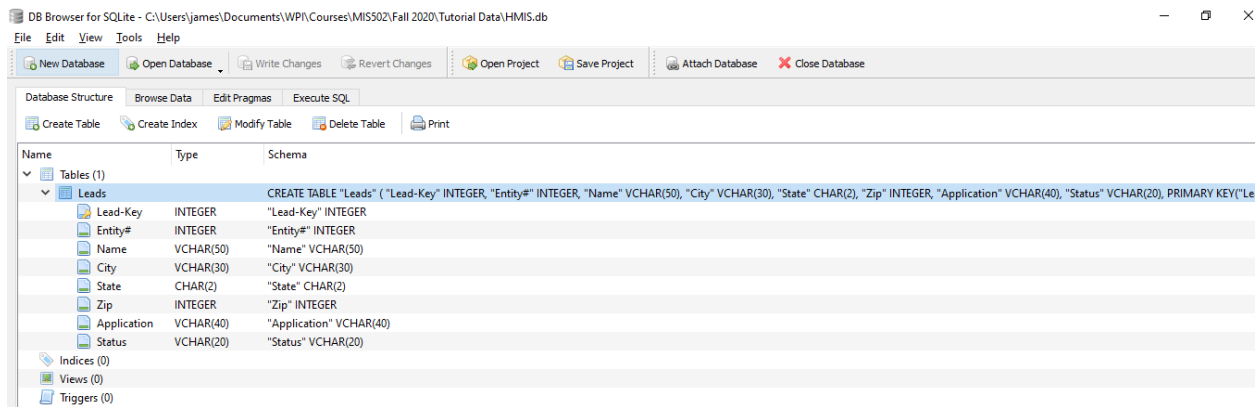# Using Functions and Subtotals in SQL Queries

➕ Physical Table Design of Leads in HMIS database:

This physical table structure above matches the following metadata below:

Hospitals have information systems and HMIS lists major hospitals across the United States and the HMIS applications installed at each hospital location.

The LEADS table displays the entity#, hospital name, city, state, zip, HMIS application, and status of HMIS application.

LEADS

Lead-Key	Primary Key
Entity#	Hospital location Identification Number
Name	Name of hospital location
City	City
State	State
Zip	Zip Code
Application	Customer Daytime phone number
Status	Customer Evening Phone number

➕ Exercises:

1) Using the CreateDBHMIS.sql script, create the HMIS.db database in SQLite (found in Week 02 Module, Tutorial One Assignment), or download HMIS.db from the Tutorial One Assignment. **(Note the number of insert statements in the SQL script. How can you minimize the data input typing? Compare HMIS_Tutorial_One.xlsx to HMIS_Tutorial_One.cvs and note how to insert the formatting for the insert statements.)**

2) Write and execute the following queries against the HMIS.db database:

   a. Count the number of hospital entities.

   b. Count the instances of hospital entities in each state.

   c. Count the instances of HMIS applications by application.

   d. List the instances of status categories for the HMIS applications by HMIS application.

   e. List the HMIS applications by city for hospitals in Massachusetts (MA).

3) Submit to Canvas Assignment in one PDF document:

   a. Your SQL script for each query.

   b. The output from running each query