

Classroom Challenge Overview

Welcome to Cigna's TECDP Classroom Challenge! The overall goal of the Classroom Challenge is to demonstrate the real-world application of the information you're learning in class. Below you will find a series of questions that our hypothetical "Business Stakeholders" have compiled. They are interested in learning more about our claim data, and would like the groups to write SQL queries in order to better inform their business strategy.

You have been provided SQL schemas containing each of the necessary table creation scripts and corresponding data to populate the fields. The schema for the "Claim DB" will contain three tables, Employer, Customer, and Claim.

- Using <http://sqlfiddle.com>, run each of the table creation scripts sequentially to build your schema and populate the tables with data
- Once you have built your schema, design SQL queries in order to meet the business requirements

You are then asked to select representatives from your group to provide a brief PowerPoint presentation of **one** of your solutions to the queries and the corresponding output during class. Although you will only be presenting the solution to one of the queries, include your solutions for all three queries in the PowerPoint document. A Subject Matter Expert (SME) in Data Analysis from Cigna will be on hand to provide feedback and share their experiences in the Data Analyst role.

Business Problems

1. Identify which claim types are the most expensive on average.
2. Identify which employer has the highest total claim cost. (Design your query so that only one employer is returned.)
3. Identify the average cost of an oncology type of claim for the employer *Smith's Shoes*.