

## Data Engineering Career Track

### SQL Optimization Mini-Project Rubric

#### Learning Objective

- Learn steps & skills to identify potential performance issues with SQL queries
- Write queries to answer questions and implement steps to improve performance of queries

Criteria	Meets Expectations
Completion	<ul style="list-style-type: none"><li>❑ Individual SQL files to answer the 5 questions</li><li>❑ Written report in MS-Word (or Google Sheets) to explain query performance issues identified and steps taken to improve it</li></ul>
Process and understanding	<ul style="list-style-type: none"><li>❑ The submission demonstrates that the student has a deep understanding of how indexes affect query performance</li><li>❑ The submission demonstrates that the student has understanding of query design in terms of the choice of join logic, using filter for indexed columns</li></ul>
Presentation	<ul style="list-style-type: none"><li>❑ The queries are clear with least nested queries and in-line comments (if possible)</li><li>❑ The final submission will be sql files and a word document submitted to the associated Github repo.</li></ul>