

CS 5300 Programming Project 3

Name: _____
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This project is more of a point of pride than a request from the Antiquarian book collector.

Using your new found knowledge of Views, Indexes, Query Processing, and Query Optimization, evaluate the queries used of the three reports and determine a way to make them run more efficiently. For each query, document the current state of the Explain/Execution plan highlighting the cost and execution time, explain what parts of the query impact the performance the most, implement measures to improve performance, and document the improved performance state of the query with a new Explain/Execution plan highlighting the cost and execution time. (30 pts each for the 3 queries).

Using your knowledge of Views, Indexes, Query Processing, Query Optimization, and knowledge of the data, create a meaningful query that you know would violate everything you have learned about query efficiency. Make me the most horrible query you can. Explain what the results of the query would be used for. Document the poor performance with the Explain/Execution plan highlighting the cost and execution time. Explain what makes the query a poor performing query. Now explain what can be done to improve the performance. Implement measures to improve performance, and document the improved performance state of the query with a new Explain/Execution plans highlighting the cost and execution time (40 pts).

Notes:

If you had already implemented measures to improve query performance in Programming Project 2, then compare them to a state where the implemented measures do not exist (essentially undo them temporarily).