Lessons Learned

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Assignment 12.3

Lessons Learned

This project was an excellent exercise in collaboratively working on databases amongst peers and simulating a professional environment in the field of database management. Throughout this project, I learned how to analyze a business and its needs, create an ERD to address those needs, and implement a database based on that ERD to track essential data for generating reports. Additionally, I wrote Python scripts to pull and join data from multiple tables in that database, enabling the creation of business reports that can be used for further analysis of the business.

One of the critical skills I developed during this project was mastering the art of joining data from multiple tables, a fundamental aspect of relational databases. Understanding different types of joins, such as inner joins, left joins, right joins, and full outer joins, proved essential to writing the scripts for this project. Learning to choose the appropriate join type based on the specific requirements of the report was invaluable. It ensured accurate, meaningful data was generated and it emphasized the importance of thoughtful database design and query optimization in order to produce a reliable business report.

Working in a team environment provided great lessons in collaboration and effective project management. Sharing files became a seamless process, as we utilized Blackboard’s file share system, as well as GitHub, to ensure that everyone had access to the latest versions of documents and code. This not only prevented conflicts and redundancy but also allowed for efficient tracking of changes and contributions from each team member.

Delegating tasks was another crucial aspect, as we learned to identify each member’s strengths and assign responsibilities accordingly. Proper delegation ensured that all tasks were handled by those best suited for them, enhancing the overall quality and efficiency of our work.

Using GitHub, I mastered the art of branching, merging, and resolving conflicts, which kept my project organized and on track. Working towards a collective goal also helped me realize the importance of clear communication and the ability to compromise. Overall, this project emphasized the value of teamwork in achieving complex objectives and prepared me for future collaborative endeavors in even more professional settings.