



REPUBLIC OF PHILIPPINES
BICOL UNIVERSITY
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Project leader: Queenie Sanico

Course/Year: BSIS-2B

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Subject: Information Management I

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Professor: Guillermo Red Jr.

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Week 13: Cloud Backup and Integration of Emerging Database Technologies

Reflection

Our team considered the different aspects of database management, business intelligence, and cloud implementations that we have to go through as we went about the project at hand to be very fulfilling. The project had various challenges at each stage, but we could accomplish the delivery of the assignments through constant teamwork and hard work.

Starting with the BI-related SQL queries made us aware of how to get useful insights from unstructured data using aggregation functions, complex joins, and various filtering methods. Creating the transformed star schema not only made us completely rethink the way we store data but also revolved around reporting and analysis. Drawing the star schema in a diagram allowed us to have a clearer picture of the relationships between the facts and dimensions within the tables.

Designing the backup.sql file and performing the database restoration process was the phase of our project that taught us the most about the topics of database security, integrity, and disaster recovery. We encountered some setbacks during the restoration process, but the joint effort in troubleshooting the issues led to our improvement in problem-solving skills.

Furthermore, moving the database to the cloud was the achievement that we stood upon. We dived into cloud database services, set access privileges, and documented each process with screenshots and explanations. Most of us had no experiences using cloud platforms for deployment but this move broadened our knowledge of current practices in hosting databases.

Last but not least, we are pleased with our updated GitHub repository that contains the folders of the backup and cloud deployment and believe that it is an efficient way to continue with version control and documentation, always ensuring our work to be in good hands.

One of the tactics that helped most in the project was frequent communication amongst team members and the division of work. Every team member took over duties according to their abilities, thereby, each of us gained new knowledge in other areas. The project strengthened our technical skills of adapting the importance of teamwork, documentation, and adaptability in real-world IT projects. On this project, not only did we acquire new technical skills but also, we were reminded of the importance of teamwork, documentation, and adaptability in real-world IT projects.