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INFO 340

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**Final Project**

**(Lessons Learned Document)**

Through taking one of my academic courses, Informatics 340, I have learned many instructive tips for designing a professional database that I have never experienced before. In retrospect, I have learned other computer languages before taking the course such as Java, R-script, mapping programs, C-languages and more. However, working with a relational database by using SQL was more related to the real work that I wanted to do in the future. I have learned the easy way to handle a numerous or big data. Furthermore, I have learned the way to make formatted, organized, and valid data structure. During the quarter, the class has been concentrated on making a professional and relational database. I have never expected that I would able to create a professional database, but I did it. It seemed difficult at first, but I soon got the hang of it through finishing many assignments. At the end of the class, the most important thing that I have learned was that I kind of figured out what real database designers creators do in the real life.

To begin with, I have learned the procedure of designing the database before I physically making it even if the data is big. At first, I simply make an excel sheet and ERD to find and normalizing relationship amongst attributes for the convenience in actual design. Then, we make each different constraint and view on each attribute in each table that I have already created. After that, I make stored procedures with permissions. The last is testing and reviewing a database. Also, I created some reports by putting demo data which is imported from a website into my database. Through the process, I was able to design and create a professional database at the end of the course.

All in all, it was a worthwhile experience for shaping my future because I finally learned language that I wished to do. Before taking the course, I have never known what database designer does. However, I have now realized that the database designer is a crucial part in technology industry. In the future, I want to show my skills that I have learned through the course in the real field of technology industry.