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Assignment Writeup

Assignment 06

**Assignment 6: Writeup**

**Introduction:**

This assignment allows us to connect previous assignments comprehensively. By looking at the meta data form, we should be able to put them into practice and write codes to conduct actual work. I integrate all I have learned in the class till now using SQL code, creating databases for the real world. In this writeup, I will be guiding through how I approach the problems and describe the process of designing and creating a relational database.

**Process:**

First of all, by looking at the meta data table, I quickly came up with an ERD in my mind. Since connecting each table together could help me better approach the assignment. After that, I started to create databases and tables by adding constraints, views, stored procedures, and permissions. Basically, the meta data table provides most of the information for testing codes values, constraints, data types and data name. All I did was to integrate and utilize them efficiently. However, while doing the check constraints, zip codes and phone numbers should follow particular formats which could cause warnings when users insert wrong values. Additionally, there are some null values, including address2 and some specific values.

**Creation:**

1. Set the purpose of the database
2. Create database and tables
3. Assign Primary Keys and Constraints to tables
4. Connect relationships between tables
5. Normalization
6. Reporting Views
7. Stored Procedures
8. Permissions
9. Insert Values
10. Review the database

**Feedback:**

I felt it difficult when it came to testing codes. I tried several times inserting values; yet, most of the times displayed insert failed which caught me a lot of time fixing it. I found this assignment easier by standing at a user perspective. For example, if I want to create a new account on a website, what information will I not type in. As we think in this way, the meta data catalog makes more sense to me.

**Conclusion:**

This assignment provides me a chance to look back on what I have learn throughout the course. The most important lesson learned in this class is to distinguish relations between each table. Since there could be one-to-one, one-to-many or etc. Once we get the idea of their connections, it will become easier for us to approach the database creation.