**Title:** INFO 330 – Module 6: Assignment06 (Questions and Answers)

**Desc:** This file has the answers to the questions in Assignment06

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**Introduction**

The process of creating a relational database has many steps. These steps involve planning, developing and testing the ERD. In this assignment, I go in depth of the many steps.

**Write a document that** **describes** the process of designing and creating a relational database.

1. Review the Data

You have to understand how the data works with each other. This is where you determine which pieces of data can be the primary key, foreign key etc.

1. Create the Meta Data Spreadsheet

Consider the constraints for each piece of data. Would certain pieces of data have to be formatted in a specific way? Also consider which data types are the most relevant for the situation.

1. Create an ERD

Using Draw.io or a similar tool, creating a visual representation of the database is crucial in the planning process. It helps database managers and people learning this database to understand how the tables are connected with each other.

1. Create the Database and Tables

Use Azure Data Studio or a similar piece of software to create the Database and Tables.

1. Create the Constraints for each table

Implement the Constraints that were listed in the Meta Data Spreadsheet that was created earlier.

1. Create the Views for the tables

Create some useful views that might help people who may need to use this database. At the very least, create one for each table and an all-encompassing view which includes all the tables.

1. Create stored procedures for each table

Create insert, update and delete stored procedures which allow users to manipulate the data in your database.

1. Set permissions for each table, view and stored procedure

Since there may be sensitive information in the database, you don’t want random users meddling with the code. Therefore, set permissions that prevent some users from using certain features.

1. Test the code

It is important that the code is tested before it is considered complete. There may be small bugs that would create more bigger problems in the future if left unnoticed.

**Conclusion**

Creating a robust relational database involves many steps, but each step is crucial in making sure the database is robust. This prevents redundancy in data, promotes scalability and increases the usability of the database.

<https://lukthomas.blogspot.com/2020/02/creating-relational-database.html>