MILESTONE 10 – DATABASE DESIGN

🖥 Synopsis

All information systems create, read, update and delete data. This data is stored in files and databases. To fully exploit the advantages of database technology, a database must be carefully designed. Database design translates the data models that were developed for the system users during the requirements analysis phase into database structures supported by the chosen database technology. Subsequent to database design, system builders will construct those data structures using the language and tools of the chosen database technology.

🖥 Objectives

After completing this milestone, you should be able to:

⇒ Transform a normalized logical data model into a physical, relational database schema.

🖥 Prerequisites

Before starting this milestone the following topics should be covered:

1. Database design – Chapter 14
2. Milestone 4 or 5 solution (preferably 5 since that data model is normalized)

🖥 Assignment

The goal of this project is to create a relational database schema.

🖥 Activities

1. Transform your logical data model into a relational database schema for the following
    database engine: _____.

Deliverable format and software to be used are according to your instructor's specifications. Deliverables should be neatly packaged in a binder, separated with a tab divider labeled "Milestone 10" and accompanied with a Milestone Evaluation Sheet.

References:

> **Customer Response System Data Attribute Dictionary from Milestone 5**
>
> **Milestone 4 or 5 Solution**
> > Provided by your instructor
>
> **Templates**
> > See on-line learning center website for the textbook.

Deliverables:

> **Physical database design:**   **Due:** __/__/__
>   **Time:**_____

ADVANCED OPTION

> *For the advanced option, enter your physical database design into a CASE tool and generate the SQL data definition code to create that database.*
>
> **SQL code:**   **Due:** __/__/__
>   **Time:**_____

Milestone's Point Value: _____