

Homework Project – Part 1

Must be completed in group of minimum of 2 students and max of 4.

Submission:

- This homework is to be completed in steps, with the final deliverable due at the end of the semester.
- At each stage – each team is required to setup a time to provide progress updates.

STAGE 1: Due -

You are provided with a partially completed ER model for Natural By Design, along with all of the exhibits which showcase the data support and reproduction necessary.

- a) Complete the ER model. This will require the introduction of new entities, attributes, relationships. You may alter existing entities and attributes as necessary.
- b) Write SQL for implementing the database designed. Your SQL for SQL Server should be organized in parts and in specific sequence as shown below.

Create a database named NBDDDB-[Your Team Initials]. Write the necessary SQL for each, test it in SQL Server.

- Script for testing if the database already exists. If exists, drop the database.
 - Script for creating the database named NBDDDB-[YourInitials]
 - Script for setting use to Database named NBDDDB-[YourInitials]
 - Create the different User-Defined Data Types (UDDTs) required for different tables
 - Create all the tables with specified data types above and without any unique constraints, primary keys, or foreign keys defined.
 - Alter the tables to create all the default and unique constraints.
 - Alter the tables to create all the primary keys
 - Alter the tables (as needed) to create the necessary foreign keys
- c) CHECK Constraints: Identify appropriate check constraints for each entity to control for the data quality. (name the check constraints as you see fit).
 - d) Write SQL to insert records for all tables. A minimum of 5 records for any given table.
 - e) Write necessary queries to reproduce IMS-2 and IMS-3