655 Design and Implementation Project Case – 60 Points

Valley Vineyards

**RELATIONAL DATABASE PROJECT**

In groups of up to three, you are to design and implement a relational database subject to the following minimum conditions:

1. Design the complete application, implement at least 8 relations (tables)
2. At least in 3NF. If your database is not normalized to this extent, you must provide justification for why it is denormalized. If you do not justify this, you will lose points.
3. At least 25 different attributes in the database with a sufficient amount of data to test some queries and analytics.

**Part 3. Implementation (20 points)**

Your physical implementation must include:

Produce a data structure diagram and include a description of your implementation.

Add a reasonable amount of test data.

Provide at least one indication of domain enforcement.

Your system must include at least 6 queries as tests. At least one of the queries must be a join operation.

IMPLEMENTATION

You may use MSAccess, SQLServer, or MySQL for implementation. Please include the database file (Access) or the name of the file (SQLServer) or url (MySQL) where the database can be found and opened. Do not include security on the file.

Your grade will be based on the quality of the physical design, object naming, domain enforcement, referential integrity, and the effectiveness of the physical database to perform queries and analysis.

You will receive one grade with the group unless individual grades need to be adjusted for participation. You will have the opportunity to do a peer evaluation.