Database Design II

Database Design II is a one-credit course in which students implement an advanced Structured Query Language (SQL) database, including writing the code, performing testing, and debugging the database. The prerequisite for this course is Database I.

Career and technical student organizations are integral, cocurricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

Advanced Software Development

Students will:

1. Compare advanced SQL and basic select statements to determine results.
2. Explain functions and expressions in SQL to build a database.
3. Utilize research results to interpret and evaluate system and software requirements for an advanced database.
4. Demonstrate the restricting and sorting of data in tables.
5. Use basics of single row functions to perform an advanced query.
6. Design a simple software program following the development process using mathematics.
7. Use multi-row sub-queries to produce data.
8. Manage tables for database applications.
9. Implement an advanced database, including writing the code, performing testing, and debugging the database.
10. Apply software testing skills to produce quality assurance.

Customer Service

11. Design an advanced software application to meet customer needs.
12. Manage constraints to follow the business model.
13. Manage views to follow the business model.
14. Evaluate maintenance of object privileges to control user access.
Career Opportunities

15. Determine nature of work, responsibilities, and educational and credentialing requirements related to database design career opportunities.