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K2W Information Systems Technology AAS Template LF298.InfoSystemsTech.Template.K2W   Database Fundamentals   Edit Mode is: ON

Database Fundamentals

Build Content ∨   Assessments ∨   Tools ∨   Partner Content ∨   Discover Content

Introduction and Procedures

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This topic area will demonstrate competency in fundamentals of databases through rational database concepts and theory, planning, defining, table design, linking, types, and normalization.

A student must achieve a minimum of 80% of the total points allowed for this competency. That equates to 344 points out of 430 points.

Completion of the following tasks are required:

1. **Database Fundamentals Assessment Tasks** (A series of tasks to compete using various database software.)
2. **Database Fundamentals Competency Assessment #1** (An assessment using multiple choice, and short answer and essay type questions; student gets two attempts to achieve the required score.)
3. **Database Fundamentals Competency Assessment #2** (An assessment similar in format to assessment #1 cover other materials; Student gets two attempts to achieve the required score)
4. **Database Fundamentals Competency Assessment #3** (An assessment demonstrating hands-on competency.. You have only one attempt as this assessment.)

Furthermore, in order to assist the student, Digital resources are provided as learning tools to enhance the student's knowledge as preparation for accomplishing any of these tasks.

Required Competencies to Achieve

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- Describe the data management activities associated with the data lifecycle.
- Diagram a database design based on an identified scenario.
- Discuss applications of data analytics.
- Discuss issues relevant to dealing with very large data sets, both structured and unstructured.
- Identify database administration tasks.
- Produce simple database queries.
- Differentiate among data types, data transfer protocols and file characteristics specific to the targeted use.
- Discuss data governance and its implications for users as well as IT professionals.

Digital Learning Resources

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These learning resources will help you learn areas within Database Fundamentals.

This folder contains digital learning resources that cover the competency areas.

- It is recommended that the learner review this information prior to taking the two assessments.
- If a score of at least 80% is not earned on both assessments and the addressing assignment, the learner should review this material before attempting the assessment again

Database Fundamentals Assessment Tasks

Contains several activities and quizzes on the subject matter.

Database Fundamentals Competency Assessment #1

Consist of multiple choice questions based on concepts and usage of database fundamentals. Mx point 55 (80% is 44 points.)

Database Fundamentals Competency Assessment #2

Multiple choice and 1 essay. There is an assessment part consisting of hands-on activity.listed as #2B. On this part, Max points is 75; 80% is 60 points.

Database Fundamentals Competency Assessment #3

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Attached Files: 📄 Database Fundamentals Lab.docx (103 KB)

This is the summation of hands-on competency for this module. Max 25 Points (80% = 20 points.)

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