

Informatics  
CSCI 1110  
Lab 07

- Contact your instructor with your questions about the assignments.
- The student must insure all the answers are free from any malware.
- The student must ensure all answers are legal as defined by the class syllabus.
- All parts of your answers must be neat and easy to read.
- Paragraphs are at least four properly constructed English sentences.
- Embedding documents within documents does not work with the D2L Bright Space assignments.
- Plagiarism will not be tolerated.
- Unless noted, all lab sections must be done as unprivileged login.
- Labeling answers is highly recommended.

## 7. Lab 07: Database and Database Management Systems

- 7.1. Upload each answer to the D2L Bright Space Assignment section 7.1 before the due date found in the 1110a.pdf document.
  - 7.1.1. Submit a database file containing only the following.
    - 7.1.1.1. Importing the stationid file and two different observation data files into a database.
    - 7.1.1.2. Alphabetize the data in the stationid table.
    - 7.1.1.3. Sorting both observation tables by day of the month.
  - 7.1.2. Submit a Portable Document Format (PDF) or word processing file containing only the following.
    - 7.1.2.1. List the field names and definitions used by all the imported tables.
  - 7.1.3. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.
- 7.2. Upload each answer to the D2L Bright Space Assignment section 7.2 before the due date found in the 1110a.pdf document.
  - 7.2.1. Submit a database file containing only the following.
    - 7.2.1.1. Create an appropriate relationship between the stationid table to at least one other observation table.
    - 7.2.1.2. Create an appropriate and meaningful query between the stationid table and an observation table.
  - 7.2.2. Submit a Portable Document Format (PDF) or word processing file containing only the following.
    - 7.2.2.1. Provide an accurate and simple explanation of the data found in the created query.
  - 7.2.3. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.
- 7.3. Upload each answer to the D2L Bright Space Assignment section 7.3 before the due date found in the 1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing only the following.
  - 7.3.1. Create a table listing the name of five lab files and the instructor calculated SHA3-512 values.
  - 7.3.2. Add a column with your SHA3-512 computer hash values.
  - 7.3.3. Add a column with your SHA2-256 computer hash values.
  - 7.3.4. In one or two sentences, identify at least two different observations about computer hash from your table.
  - 7.3.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.
- 7.4. Upload each answer to the D2L Bright Space Assignment section 7.4 before the due date found in the 1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing only the following.
  - 7.4.1. Show Thunderbird is installed and connected to one of your email accounts.
  - 7.4.2. Provide the complete output of your public key.
  - 7.4.3. Provide a list of who may or may not have access to your private key in an unencrypted form. This includes family members, friends, governments, and data aggregation companies.
  - 7.4.4. Provide a list of who may or may not have access to your public key in an unencrypted form. This includes family members, friends, governments, and data aggregation companies.
  - 7.4.5. Provide the URL or a complete copy of a recognized nationally recognized ethics statement that supports your position.
  - 7.4.6. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.