

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 insure 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

### Lab 07: Database and Database Management Systems

- 7.1. Each part is worth six points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 7.1 before the due date found in the 1110a.pdf document. Submit a database file containing your answers.
  - 7.1.1. Upload the database file in native format to D2L Bright Space assignments with 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. Provide a document accurately and simply explaining the field names for all the imported tables only.
- 7.2. Each part is worth eight points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 7.2 before the due date found in the 1110a.pdf document. Submit a database file containing your answers.
  - 7.2.1. Upload the database file in native format to D2L Bright Space assignments with 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. Provide an accurate and simple explanation of the data found in the created query.
- 7.3. Each part is worth six points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 7.3 before the due date found in the 1110a.pdf document.
  - 7.3.1. Create a table listing the name of five lab files and the instructor calculated SHA2-512 hash values.
  - 7.3.2. Add your SHA2-512 hash values to the table.
  - 7.3.3. Create a table listing the name of five lab files and the instructor calculated SHA3-256 hash values
  - 7.3.4. Add your SHA3-256 calculated hash value to the table.
  - 7.3.5. In one or two sentences, identify at least two different observations about computer hash from your table.
- 7.4. Each part is worth six points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 7.4 before the due date found in the 1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
  - 7.4.1. Provide the complete output of your public key.
  - 7.4.2. Provide the URL of an ethics statement that deals with encryption.
  - 7.4.3. Identify a government that allows strong (unbreakable) end to end encryption. Provide a URL to support your claim.
  - 7.4.4. Identify a government that does not allow strong (unbreakable) end to end encryption. Provide a URL to support your claim.