Assignment 1

Due Date: September 21, 2016

1) Contrast the following terms. Please be succinct in your answers. Please write no more than three to nine single spaced sentences for each question. (20 Points)
   a. Data dependence; data independence.
   b. Structured data; unstructured data.
   c. Data; information.
   d. Repository; database.
   e. Entity; enterprise data model.
   f. Data warehouse; ERP system.
   g. Personal databases; multitier databases.
   h. Systems development life cycle; prototyping.
   i. Enterprise data model; conceptual data model.
   j. Prototyping; Agile software development.

2) In class, we discussed some key members (for example: business analysts, systems analysts, database analysts) involved in a systems or database development team. Your job now is to research more about these people. Pick one member of your choice from the team. Do not pick "user" and "other technical experts". In your write-up include the following: (10 Points)
   a. Provide a short one-paragraph description\responsibilities of their job.
   b. What are the skills they need? Skills may be soft skills like communication skills and \or programming skills i.e. in terms of computer software (like MySQL)?
   c. What are requirements for education and experience?
   d. List the sources you consulted?

Hints: Feel free to search company websites for job postings. Do some research on sites like linkedIn.com, indeed.com, etc. For this question, you can discuss with your classmates. But you have to write your own answer. If you discussed with someone, please mention on your answer sheet the names of friends you discussed with.

Bonus Questions: (Each 1 point)

3) A workgroup database is stored on a central device called a:
A) client.
B) server.

C) remote PC.

D) network.

4) The most common source of database failures in organizations is:

A) lack of planning.

B) inadequate budget.

C) inadequate hardware.

D) failure to implement a strong database administration function.

5) A user view is:

A) what a user sees when he or she looks out the window.

B) a table or set of tables.

C) a logical description of some portion of the database.

D) a procedure stored on the server.

6) All of the following are properties of metadata EXCEPT:

A) data definitions.

B) processing logic.

C) rules or constraints.

D) data structures.

7) A graphical system used to capture the nature and relationships among data is called a(n):

A) XML data model.

B) hypertext graphic.

C) relational database

D) data model.