CS631 Assignment-1

Due date: See the Assignment page on Canvas

Do answer all of the 8 items below and **submit** a word/pdf file via Canvas. If you have a question, email your instructor.

- 1- (20 points) Define the following terms: data, database, DBMS, database system, database catalog, program-data independence, user view, DBA, end user, and canned transaction.
- 2- (10 points) What is the difference between a database schema and a database state?
- **3-** (10 points) Describe the main components in a DBMS.
- **4-** (10 points) Describe the types of facilities you would expect to be provided in a multiuser DBMS.
- 5- (10 points) Explain the difference between **logical data independence** and **physical data independence**.
- **6-** (10 points) Explain the difference between **external**, **internal**, and **conceptual schemas**. How are these different schema layers related to the concept of logical and physical data independence?
- **7-** (10 points) What is the difference between the **two-tier** and **three-tier client/server** architectures?
- 8- (20 points) Search the job listing sites and list detailed job requirements for
 - 1 DBA
 - 1 Database developer
 - 1 Database designer