

Homework 1 (Chapter 1 -3 Connolly & Begg)

Each question is worth 10 points each

1. *Discuss the differences between DDL and DML. What operations would you typically expect to be available in each language?*
2. *Describe the difference between data security and data integrity.*
3. *Describe the main characteristics of the database approach and contrast it with the file-based approach.*
4. *Provide a definition for a data administrator and a database administrator. What types of interactions would these two users of the database have?*
5. *Name three record-based data models. Discuss the main differences between these data models.*
6. *What are the advantages of a relational database when compared to the file-based approach to storing data?*
7. *What is concurrency control and why does a DBMS need a concurrency control facility?*
8. *What is a transaction? Give an example of a transaction.*
9. *What is meant by the term 'client-server architecture' and what are the advantages of this approach? Compare the client-server architecture with two other architectures.*
10. *What is a Transaction Processing Monitor? What advantages does a TP Monitor bring to an OLTP environment?*