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CSCI 3343

Chapter 5 Review Questions

**5.1) Define the terms database, database management system, and query language.**

Database: A structured collection of data stored for use by one or more applications.

Database Management System: A suite of programs for constructing and maintaining the database and for offering ad hoc query facilities to multiple users and applications.

Query Language: A language that provides a uniform interface to the database for users and applications.

**5.3) How many primary keys and how many foreign keys may a table have in a relational database?**

There can only be one primary key since it has to be unique to be a primary key but there can be as many foreign keys as there are foreign tables to connect to.

**5.5) Explain the concept of cascading authorizations.**

In cascading authorization, a user may grant other users permissions. Those users may proceed to grant other users permissions, and so on.

**5.7) What are the disadvantages to database encryption?**

Key management: Authorized users must have the decryption key for the data they wish to have access to.

Inflexibility: When part or all of the database is encrypted, it becomes more difficult to perform record searching.