# CIS210 Database Management and SQL

## Key Terms Chapters 7-9

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| Chapter 7  Authentication - Database authentication is the method or act of verifying that a user attempting to log in to a database.  Backup - A backup is a copy of your database's data that can be used to recreate it. Physical and logical backups are the two types of backups.  Batch Processing - Batch processing is the simultaneous processing of a large amount of data.  Biometrics - Biometrics are physical or behavioral characteristics of an individual that can be used to digitally identify them and grant access to systems, computers, or data.  Commit - A SQL COMMIT statement completes a transaction and makes all modifications available to other users in a relational database management system (RDBMS).  Deadlock - A deadlock in a database occurs when two or more transactions are waiting for one another to release locks.  Locking - A database lock is used to “lock” any data in a database such that it can only be updated by one database user/session.  Metadata - The term metadata refers to data that contains information about other data.  Rollback - A rollback is a database technology process that restores the database to a previous state.  Transaction - A database transaction is a unit of work that is conducted against a database by a database management system and is handled in a consistent and accurate manner, independent of other transactions.  Two-Phase Locking - The two-phase locking (2PL) method of concurrency management ensures serializability. | Chapter 8  Denormalizing - Denormalization is a performance-enhancing technique that is applied to a previously normalized database.  Disaster Recovery Plan - A disaster recovery plan (DRP) is a standardized, recorded approach that includes guidelines for dealing with unplanned events.  Hot Site - In the event of a computer or equipment failure, a hot site is a commercial disaster recovery facility that helps a company to continue computer and network operations.  Patriot Act - The USA Patriot Act was enacted to prevent and prosecute terrorist attacks in the United States and around the world.  RAID (redundant array of  inexpensive/independent drives)  Shared Lock - is a data storage virtualization technology that integrates multiple physical disk drive components into one or more logical units for data redundancy, performance, or both.  UPS - When a computer's primary power source fails, an uninterruptible power supply (UPS) keeps it going for at least a short time.  Warm Site - When an organization's primary data center goes down, it uses a warm location to restore the technology infrastructure. |
| Chapter 9  Application Server  Binary Large Objects (BLOBs)  Client/Server  Database Server  Data Mining  Data Warehouse  Distributed Database  Object-Oriented Database Management  System (OODBMS)  Online Analytical Processing (OLAP)  Online Transaction Processing (OLTP)  Three-Tier Architecture  Two-Phase Commit |