CDBM 280 Learning Outcome 1 Review

# Questions

1. Give 5 examples of DBMS software.
2. What is SQL and what are 3 components of SQL?
3. What are some of the disadvantages of the early file-based systems for handling data?
4. What are the advantages of a database management system? What are the disadvantages?
5. Briefly describe the hierarchical and network DBMS structures. What were the disadvantages to these approaches?
6. Describe three levels of a DBMS architecture. What is the objective of this architecture model?
7. What are the main functions of a DBMS?
8. Describe the characteristics of a data warehouse.
9. Describe the ETL process.
10. Discuss how a data mart is different from a data warehouse.

# Terminology

Define the following terms:

4GL

Candidate key

Column

Composite key

Constraint

Data

Database

Data dictionary

Data mart

Strategic Mart

Data mining

Data warehouse

DBA

DBMS

DCL

DDL

DML

Domain

ETL

Foreign key

Information

Metadata

OLAP

Object oriented - database

Relational database

Primary key

Relation or Table

RDBMS

Row, tuple, record

Schema

SQL

Star schema

Surrogate key

Transaction

Unique key