**Database Management Test 1 Review**

**What to review:**

Ch 1,2,9 & 2 handouts, PowerPoints, chapter summaries

**Format of the test:**

* Matching
* Short Answer be succinct but thorough -- can’t answer 10 pt qstn with 2 sentences

A database is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

**Ch1**

* History Lesson
* File systems
* Data vs Info
* DB Types:
  + Big data NoSQL
  + DW
  + Operational/ Transactional
* Managing Data
  + Why need?
  + What does dbms do ?

History Lesson: (these in ch2 also)

1. File / Spreadsheet
2. Hierarchical
3. Network
4. Relational
5. Object Oriented

DW / Big Data & NoSQL

Single/Multi - user

Central/Distributed

**Ch2**

Drawing:

* Chen
* Crows Feet
* UML
* ER Model

Relationships:

* 1-M
* M-M
* 1-1

Business Rules:

* Entities
* Attributes
* Relationships
* Constraints

Logical level knows what the ent, att, and relationships are so that you know what your tables are logically

What results from ea model?

* External (& who uses?)
* Conceptual
* Logical
* Physical

**Ch9**

Lifecycles:

* SDLC
* DBLC

Forms of Testing:

Minimal Data Rule:

“All data that is needed is there and all that is needed is there.”

3 People to Know:

* Chen
  + Established the Chen Model
* E.F. Codd
  + Father of modern day databases
* C.G. Date
  + Theoretician of databases

Why care about backups?

Save Data

What good if never restore?

Where does the DBLS fit into the SDLC?

What is too early and what is too late?

Coupling vs Cohesion

Testing & related terms