

A.I.S. Class 23: Outline

- Learning Objectives for Chapter 12
- Chapter 12 Summary
- Group Work for Chapter 12 (1)
- Group Work for Chapter 12 (2)
- CLASSROOM PRESENTATION 5

Learning Objectives for Chapter 12

- After studying this chapter you should be able to:
 - ◆ use the General Systems Model to describe an information system for meeting the information needs relative to revenue business processes
 - ◆ identify a comprehensive set of information needs and user requirements for a database driven information system for revenue business processes
 - ◆ develop an extended entity relationship diagram depicting a data oriented view of revenue business processes

Learning Objectives for Chapter 12

- ◆ convert an extended entity relationship diagram of revenue business processes to tables for implementation in a relational database system
- ◆ construct a context diagram and a level 0 data flow diagram depicting a process oriented view of revenue business processes
- ◆ identify the tables and database forms that would be created to implement the data and process oriented models
- ◆ indicate how accounting views such as a sales journal and current accounts receivable can be generated in a relational database system

Learning Objectives for Chapter 12

- ◆ indicate how non-financial information needs can be met in a relational database system for revenue related business processes
- ◆ identify controls that should be implemented in a database system for revenue business processes
- ◆ indicate how a database system for revenue business processes can be audited using the features available in relational database systems
- ◆ adapt an existing database design to accommodate changes in users' needs and business rules

Chapter 12 Summary

- General Systems Model
- Information needs
- Revenue business processes
- REA modeling - EER
- REA modeling - data repository
- REA modeling - normalization
- DFD models
- ACCESS implementation
- Controls
- Auditing
- Change management

Group Work for Chapter 12 (1)

- The EER Diagram for Revenue Business Processes shown in Chapter 12 *in 1997* was a valid EER diagram - but it had not been designed by following the REA methodology we have been learning strictly
- Working in groups, identify at least ten shortcomings of 1997's model *without referring to the current model in Chapter 12*
- Are there also errors in 1997's data repository structure? If so, what are they?

Group Work for Chapter 12 (2)

- Consider the Data Repository Structure for a Mail Order company handed out in class:
 - * What errors, if any, does it contain?
 - * Sketch an REAL model for it
 - * How would you produce the various reports requested?

Finally . . .

- Classes will meet in Lab 005 on Wednesday November 29

CLASSROOM PRESENTATION

■ Group Project Stage 5