

# *A.I.S. Class 12: Outline*

- Classroom Assessment
- Optionalities & Cardinalities
- Internal Controls – Questions?
- Group Projects Stage 4 Documentation
- Group Work Chapter 9 & 10
- Learning Objectives for Chapter 1
- Chapter 1 Quiz
- Learning Objectives for Chapter 2
- Chapter 2 Quiz
- Group Projects Stage 3

# *Classroom Assessment*

- 27 students declined to complete this exercise or were absent
- 78 responses

# *Classroom Assessment*

## ■ The most important thing I have learned

|                                                              |    |
|--------------------------------------------------------------|----|
| * REA 9 Steps                                                | 21 |
| * Flowcharts                                                 | 16 |
| * REA Diagrams                                               | 15 |
| * UML                                                        | 8  |
| * Working in groups, relying on others, planning assignments | 8  |
| * Flow of accounting systems & documents                     | 7  |
| * Optionalities & cardinalities                              | 6  |
| * Identifying business events                                | 5  |
| * Database design and steps                                  | 4  |
| * Logical design                                             | 3  |
| * REA Ontology                                               | 3  |
| * DFDs                                                       | 2  |
| * Nothing                                                    | 2  |
| * <i>Items appearing once only</i>                           | 6  |

# Classroom Assessment

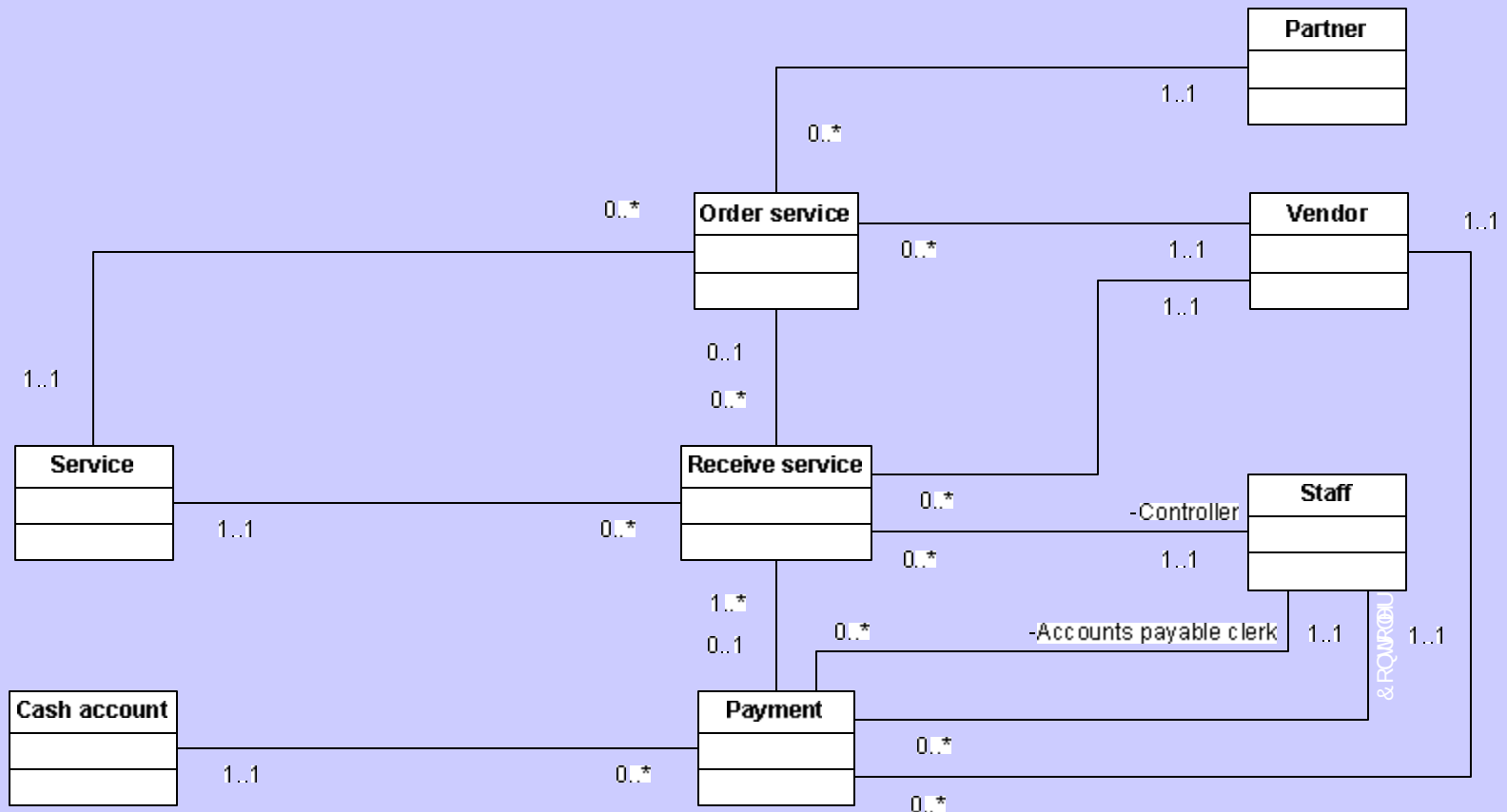
## ■ What is least clear to me

|                                                              | 2004 |    |
|--------------------------------------------------------------|------|----|
| * DFDs & Context Diagrams (18 + 5)                           | 23   | 5  |
| * Optionalities & cardinalities                              | 18   | 21 |
| * Identifying significant business events, information, etc. | 7    | 6  |
| * REA Ontology & associated terminology                      | 7    | 0  |
| * Identifying Relationships                                  | 6    | 0  |
| * Normalization                                              | 6    | 0  |
| * Chapter 9                                                  | 5    | 0  |
| * SQL                                                        | 4    | 3  |
| * Nothing                                                    | 4    | 0  |
| * Flowcharts                                                 | 2    | 12 |
| * Defining attributes                                        | 2    | 7  |
| * UML                                                        | 2    | 6  |
| * EER diagrams                                               | 2    | 3  |
| * College Computing                                          | 2    | 0  |
| * <i>Items appearing once only, including "Everything"</i>   | 14   |    |

# *Optionalities and Cardinalities*



# Optionalities and Cardinalities



# *Internal Controls – Questions?*

## *Group Projects Stage 4*

- Use the Internal Control documentation discussed in class last week
- Add additional copies of pages as needed
- The document is downloadable from Blackboard
- Application Controls will be needed this year for the *services*, *sales* and *production* cycles only, to save you time
- Complete the documentation for the Internal Control Structure you will design for the *new* system, NOT the *existing* system

# *Group Work*

- Chapter 9 Problems 8, 9 & 12
- Chapter 10 Problems 6 & 7

# *Learning Objectives for Chapter 1*

- Give an overview of the Windows environment
- Present key Windows features
  - ✧ Understand what objects are found on the desktop
  - ✧ Open, close, maximize, and minimize windows
  - ✧ Launch an application using the Start button
  - ✧ Use a dialog box
  - ✧ Exit an application
  - ✧ Use Windows Explorer to manage files and programs and to launch a program
  - ✧ Create folders in Windows Explorer

# *Learning Objectives for Chapter 1*

- ★ Get help on the current application
- ★ Launch multiple applications and switch between them
- ★ Pass data between Windows programs
- ★ Create and use desktop shortcuts
- ★ Modify the Start menu
- ★ Relocate the Taskbar
- ★ Exit Windows

# *Chapter 1 Quiz*

?

## *Learning Objectives for Chapter 2*

- Describe the Access database management system in detail
- Use predefined databases
- Important topics include the following:
  - ★ Starting and exiting Access
  - ★ Understanding the Access work surface icons
  - ★ Using the Access objects, including tables, forms, queries, and reports

# *Learning Objectives for Chapter 2*

- ★ Opening and displaying database tables
- ★ Retrieving information with queries
- ★ Modifying tables' contents with action queries
- ★ Creating and using forms to display and query tables and databases
- ★ Designing and using database reports

# *Chapter 2 Quiz*

?

# *Microsoft ACCESS 2003*

- Tables, Queries, Forms, Reports, *Pages*, *Macros*, *Modules*
- Selection Queries and Dynasets
- 3 ways to sort data
- Selection criteria
  - \* #
  - \* < > = <= >= <>
  - \* AND, OR, NOT
- Action Queries
  - \* Make-Table
  - \* Update
  - \* Delete
  - \* Append

## *Group Projects Stage 3*

- Every group needs to meet with Professor Gillett to discuss Stage 2 after grading before they complete Stage 3 – he will post details
- Do not forget to turn in the three cumulative Group Logs with each submission
- We recommend the UML format for REA diagrams, . . . but the choice is yours
- Recall our conventions for keys on tables: underline primary keys, [ ] for foreign keys
- { } are NEEDED for Step 6 but not permitted in tables at Step 8

## *Group Projects Stage 3*

- Camel Code naming conventions for files:
  - ★ SalesOrder
  - ★ TimeWorked
  - ★ RawMaterials
  - ★ Requisitions-RawMaterials
  - ★ E.g.
    - ◆ SalesOrder (Order#, Date, [Customer#], [Salesperson#])

## *Group Projects Stages 2 & 3*

- It is clear that Stage 3 of the project cannot be successful until Stage 2 is fixed
- There are problems at Stage 2 with identifying the entities, identifying the relationships, determining the optionalities and cardinalities, and specifying attributes
- Every group *needs* to fix their REA diagrams before beginning Stage 3
- As an incentive, we will be willing to re-grade Stage 2 for any group that turns it in outside Levin 231 with Stage 3 on Wednesday, October 26
  - ★ Note that you should fix all 6 steps – but we will confine our attention this time to Steps 5 and 6 only

## *Group Projects Stages 2 & 3*

- This is an offer by us to do extra work – it is NOT a requirement for you to do this
- To make the project more manageable for you , therefore, Professor Gillett is amending the requirement for Stage 3 as follows:
  - ★ You must still complete the data repository structure for the entire system (Step 8)
  - ★ However, he will accept DFDs (Step 7) for the *services, sales and production cycles only*
    - ◆ Note that these are the same three cycles for which you will also complete Stage 4