CS544 Midterm exam Review

The midterm exam will consist of those questions. Total Score: ?

1. Short Answer questions – 10~15 questions – ? points
2. Programming question – 2 questions – ? points
   1. Class diagram + tables => know how to annotate entities to match tables
   2. Entities + annotations => know how to draw tables
   3. Queries => like the Quiz
3. SCI – No

Location: V47A, V47B

Time: July 5, 10am ~ 12:30pm, 2.5 hours (Arrive 15 minutes earlier) Find your name tag to sit.

Cheat sheet: A4 – I page one side

# Don’t write down your StudentID&Name in the exam paper.

Exam Policy:

There is no tolerance policy for exams. You will be asked to leave the exam room immediately without a warning.

Once you do the following things which mean you’ll get NC.

1. You are caught cheating or trying to cheat.
2. Answers should be written with a Pen or Pencil, but if you use pencil please bring eraser and sharpener. You’re not allowed to borrow from other students or proctors during exam.
3. All mobile phones should be turned off and leave in the front desk before exam starts.
4. Restroom policy:
   1. No phones – show me your pockets
   2. Only 5 minutes
   3. Not allowed to go to restroom after someone submit paper
5. You’re not allowed to go out room for water.
6. You’re not allowed to ask/get extra papers from other students or proctors. All your notes must be written on the exam paper provided.
7. Please write down your answer clearly. If I cannot read your answer, you’ll not get credit.
8. If you’re not clear about the question, you MUST ask me during exam. You cannot claim the question isn’t clear while go through exam answers.

# Review Points:

Lesson 2b Basic Mapping

No – list below not in exam

* Large Objects @LOB
* @Access
* Reflection – P35
* XML Mapping
* Main points

Lesson 3 Persistence API

* No coding on classic Generic DAO design pattern, you have to understand the theory Page 1-7 except Page3
* P 29 – no need to memorize
* P34 – No
* P35 – No
* P41 - No

Lesson 4 Associations

No Map

Lesson 5 Inheritance

* Inheritance
* Secondary Table
* Embedded Classes
* No after Page 30

Lesson 6 Queries

* No after Page 44
* No aggregates, Criteria, stored procedure & Native Query
* No named queries

Lesson 7 Optimization

* @LazyCollection – Page 9, 10
* Cartesian Product problem
* N+1 Problem
  + Entity Graph
  + Join Fetch
  + Batch Size
  + SubSelect

Lesson 8 Concurrency

* Isolation level, problem with each isolation level
* Lost Update problem – how to solve in optimistic concurrency way