

# COP4540 Embedded Assessment Report

Spring 2011

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On April 18, 2011, embedded assessment was conducted in the class. Thirteen (13) in-class students answer the five questions (Table 1) in order to check whether the learning results match with the course outcomes (Table 2).

## Table 1: Questions

The test questions were edited out for this publication

Norman Pestaina

## Table 2: Course Outcomes

Course Outcomes:

1. Be exposed to information systems
2. Be familiar with database system and database architecture
3. Master the design conceptual schemas
4. Master normalization theory and the mapping of a conceptual schema to a relational schema
5. Master the expression of queries in SQL, relational algebra, and relational calculus
6. Be familiar with physical database design
7. Be familiar with writing application programs that use SQL

Table 3 corresponds the questions to the course outcomes.

## Table 3: Examination Questions Corresponding to Course Outcomes

Question	Course Outcomes
1	1, 2
2	3, 4, 6
3	5
4	5
5	7

Table 4 shows the results of students' answers to these five questions: correct answer (denoted as C) and wrong answer (denoted as W).

**Table 4: Examination Results and Performance**

Student PID	Question 1	Question 2	Question 3	Question 4	Question 5	# Correct / Total Questions	Correct Percentage (%)
Edited	C	C	C	W	C	4/5	80
for	C	C	C	W	C	4/5	80
privacy	C	C	C	W	C	4/5	80
	C	C	C	W	W	3/5	60
	C	C	C	C	C	5/5	100
	C	C	C	C	C	5/5	100
	C	C	C	W	C	4/5	80
	C	C	W	C	C	4/5	80
	C	C	C	C	C	5/5	100
	C	C	C	W	C	4/5	80
	C	C	C	C	C	5/5	100
	C	C	C	C	C	5/5	100
	C	C	C	C	W	4/5	80

**Assessment:**

From the results, it clearly shows that the students have good course outcomes: 5 students with 100% performance, 7 students with 80% performance, and 1 student with 60% performance. Students did very well for questions 1, 2, 3, and 5 (corresponding to course outcomes 1,2, 3, 4, 6, and 7). Six (6) students answered question 4 wrong. This question is related to transform Universal and Existential Quantifiers and some students don't have the enough background in this area though this topic was also discussed in the class.