

BUILDING A BETTER MOUSETRAP: BEST PRACTICES FOR COMPUTER- BASED TESTING

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AGENDA

- **MOTIVATION**
- **CBT TRENDS**
- **WHY ADOPT?**
- **BEST PRACTICES**
- **QUESTIONS**



MOTIVATION

- **SPRING 2019 IT 261 POLL**
- **SCHOOL OF IT - CBT USAGE < 50%**
- **IT FACULTY**



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MOTIVATION

- **SPRING 2019 IT 261 POLL**
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- **WHAT'S IT LIKE CAMPUS-WIDE?**
- **ADVOCACY**



TRENDS

- **ROOTS GO BACK 100 YEARS (BINET, ADAPTIVE TESTING)**
- **CORPORATE TRAINING**
- **COLLEGE ADMISSION TESTING**
- **HAS NOT SUPPLANTED PAPER – BASED TESTING**

UI URBANA-CHAMPAIGN - PRARIELEARN



- **FOUNDED IN 2014 (SIIP GRANT)**
- **85 AND 35 SEAT FACILITIES**
- **STUDENTS SELECT CONVENIENT EXAM TIME – CAN CHANGE WITHOUT FACULTY**
- **FACULTY – INVEST TIME UPFRONT TO DEVELOP MEANINGFUL, AUTHENTIC QUESTIONS**

WHY USE CBT?

• STUDENTS

- IMMEDIATE FEEDBACK
- LOCATION FLEXIBILITY
- RESPONSE REVISION
- CONVENIENT ACCESS TO THEIR ANSWERS
- SECOND-CHANCE TESTING

Part 1 of 2 - True/False (1 point each)

Question 1 of 10

1 Points

When designing a database, you should create a table for each domain class found on the DMCD.

True

False

[Reset Selection](#)

Question 2 of 10

1 Points

Natural keys are used because in most business domains there are few existing attributes that are useful for information processing.

True

False

[Reset Selection](#)

**TEST ANXIETY HAS
NEGATIVE IMPACT ON
PERFORMANCE**

**ANXIETY LEVELS IN
CBT OFTEN EXCEED
PAPER BASED**



WHY USE CBT?

- **FACULTY**
 - **CONVENIENCE**
 - **DESIGN OPTIONS**
 - **QUESTION POOL**
 - **AUTOMATED GRADING**
 - **ITEM ANALYSIS & COURSE ASSESSMENT**

DESIGN OPTIONS

- **REGGIENET EXAMPLE**

ITEM ANALYSIS

- **REGGIENET EXAMPLE**

COURSE ASSESSMENT

The screenshot shows a web browser window displaying a course assessment page on Reggie.net. The browser's address bar shows the URL: reggienet.illinoisstate.edu/portal/site/795cb609-f29d-4f91-94ad-741abf8e312c/tool/5c47d322-f758-4bdb-84c0-6c692f6b1153/jsf/evaluation/questionScore. The page header includes the Reggie.net logo and navigation links like 'Giving', 'News', 'Events', 'Map', 'Apply', and 'Search/A-Z'. The user is logged in as 'William'. The main content is a table with the following data:

Student ID	Name	Role	Date	Score	Status	Action
[Redacted]	ndunne	Student	11/18/2019	1.0	False	Add Attachments
[Redacted]	atgree1	Student	11/18/2019	0.0	True	Add Attachments
[Redacted]	dthardi	Student	11/18/2019	1.0	False	Add Attachments
[Redacted]	pmhay1	Student	11/18/2019	0.0	True	Add Attachments
[Redacted]	baheini	Student	11/18/2019	1.0	False	Add Attachments

YOU SOLD ME! NOW WHAT?

- **BEST PRACTICES**

- **PLACE ALL QUESTIONS ON ONE WEB PAGE**
- **SMART PHONES: LIMIT TO QUIZZES ONLY**
- **MONITOR EXAM STATUS**
- **TRIPLE-CHECK SETTINGS BEFORE PUBLISHING EXAM/QUIZ**
- **MANUALLY GRADE SHORT ANSWER/FILL IN THE BLANK/ESSAY**

“I HAVE A QUESTION”

- True**
- False**

