MISY350 Exam 3 Review

1. Format:

- Closed-book, closed-notes
- Bring 2B pencils
- 50 multiple-choice/true-false questions (100%)

2. Materials to be tested:

- Lecture slides
- In-class demos and homework assignments

3. Major Topics

- 1) MySQL
 - Relational DBMS
 - What is SQL
 - SQL statement syntax (select, insert, update, delete)

2) Python

- Multitier application structure
- Comparison of client-side and server-side scripting
- Pros and cons of Python
- Python language essentials (variables, global variables, data types, constants, lamda function, string operations, operators, control structures, lists, dictionaries, and sets)

3) Python Flask

- How to adopt a Bootstrap template into the Python Flask app template (excluding package installation steps)
 - o Frontend and backend development
- Object-Relational Mapping
- SQLAlchemy database, session, query objects and methods
- Making changes to databases in SQLAlchemy

4) Python State Management

- Needs for saving the state
- Solutions to the data persistence problem
- Differences between sessions and cookies

5) Python Flask Form Input Validation and Processing

- Python Flask form setup
- Sending data between an HTML form and app/views.py
- Jinja syntax used in HTML templates
- Flashed messages