

CSCI S-101 Midterm Review Topics

- 1) Statistics Formulas covered in class
 - a. (mean, std dev, covariance, Pearson R)
- 2) Python Basics
 - a. Data types
 - b. Expressions
 - c. Relational and logical operators
 - d. If-elif-else, for loop, while loop
 - e. String slicing, string functions
- 3) Python Modules and Functions covered in class
 - a. Pandas, numpy, user-defined-functions,
 - b. Pandas data frame, save to CSV, read from CSV
 - c. MySQL connector, cursor and Pandas MySQL integration
 - d. Executing SQL commands from Python
 - i. SHOW, CREATE, DROP, SELECT, UNION, INSERT INTO, COMMIT
 - e. Python filtering, replace, regex, pivot, pivot table
 - f. All Pandas dataframe creation, data cleaning, merge concepts and techniques covered in class