List of topics to de-emphasize

Executive Summary: (i) This document lists the chapters and concepts to be de-emphasized in each SU. (ii) De-emphasizing means that the student should understand ‘how’ and ‘why’ a concept works, and explain the ‘how’ and ‘why’ clearly. However, the student does not need to be able to implement the concept in Python. (iii) Instructors will use the time saved (from SU6 mainly) to help students grasp the key relevant concepts in the earlier study units.

1. SU4

* Chapter 3: merge dataframes
  + Chapter 3.1: Append
    - De-emphasize
  + Chapter 3.2: Merging
    - De-emphasize
* Chapter 5: data modification
  + Chapter 5.2: discretization
    - De-emphasize
  + Chapter 5.4: transformation, standardisation, normalization
    - De-emphasize standardization and normalization only
    - i.e., do not de-emphasize transformation

1. SU5

* Chapter 1: Introduction to Scikit-Learn
  + Chapter 1.2.2: Reducing number of categories
    - De-emphasize
  + Chapter 1.2.3: Discretisation
    - De-emphasize
  + Chapter 1.2.6: Data transformation
    - De-emphasize all topics, except for log transformation
    - i.e., do not de-emphasize log transformation
  + Chapter 1.2.7: Training and testing datasets
    - de-emphasize training and testing datasets
* Chapter 2: K-Means clustering
  + Chapter 2.3: Model exploring and evaluation
    - de-emphasize model exploring and evaluation
* Chapter 3: Decision Trees
  + Chapter 3.3: Model evaluation
    - de-emphasize model evaluation

1. SU6

* Focus on Chapter 1: Introduction to SQL and SQLite3
* Focus on: simple select statement and natural join
* Other contents not mentioned in the previous 2 bullet points is not covered in ECA
  + This information can be made available to the L group students.
* ICT 330 class should be the one to learn proper SQL knowledge database management