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Professor Rogers

CS 339

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Lab 2 Writeup

Describe any design decisions you made. These may be minimal for Lab 1.

- The majority of the design decisions we made included creating data structures and helper classes within the classes in each exercise. For example, in TupleDesc, we found it necessary to create an array of TDItems in order to keep track of each TDItem as well as the information for each field. We used a similar process for other classes, such as in Tuple and BufferPool. We also used ConcurrentHashMaps to map values to ids or names, as in Catalog.

Discuss and justify any changes you made to the API.

- We did not make any changes to the API.

Describe any missing or incomplete elements of your code.

- While our code should be complete according to the specifications of Lab2 and passes all tests, it fails certain system tests. We attempted to debug these failures, but found it difficult to track where exactly in our code the bug was.

Describe how long you spent on the lab, and whether there was anything you found particularly difficult or confusing.

- We spent approximately 6-8 hours in the lab in total. The part of the lab that we found confusing was initially getting started on the lab, becoming familiar with how classes interact with each other, Java itself, and the final couple exercises, specifically implementing the HeapFile iterator.