Description of Lab1

XIE JIE

516030910042

- 1.Design decisions
- (1)Using ArrayList in Tuple to avoid Iterator.
- (2)Throwing all pages in BufferPool instead of throwing only one when BufferPool is full.
- (3)Using a simple hash function HeapPageId. It may cause a crash.
- (3)Using a getNext method in DbFileIterator to avoid scan pages twice.
- 2.Top APIs are not changed. All new methods are private that is only used in the local class.

3.

- (1)Missing replacement strategy in BufferPool, causing a clear to BufferPool every BufferPool.size times.
- (2) Not ready for multithreads.

4.

It takes me 1.5 days to finish the lab1 and another half hour to finish the description. The most confusing point is that I firstly don't know how to call the catalog and the BufferPool. The DataBase class should be describe more.