

ACM-DB Lab2

This is the answer document for lab2.

Design Choices

1. Exercise 1:

- BufferPool.java flushPage()
 - eviction policy: LRU
 - mark all pages fetched as dirty, set them to be clean when flushed

2. Exercise 2:

- findLeafPage()
 - nothing special

3. Exercise 3:

- splitLeafPage(), splitInternalPage()
 - nothing special

4. Exercise 4:

- stealFromLeafPage()...
 - nothing special

Changes to API

None.

Missing or Incomplete elements

I believe None.

Time Spent

1 week.

- Stuck on a weird bug in Exercise 3 for some time.

When rootPtr is changed in a insert process, it still remains unchanged when the insertion is completed. Turned out the reason is that I forgot to mark pages dirty in BufferPool and rootPtr page was flushed without commit change.