Writeup for Lab1

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Code

https://github.com/zidaneandmessi/acmdb

Design

There is not much to personalize since most code for lab1 is fixed. But something I think my implementation was somehow different is that I defined some sub-classes for iterator. For example, of the iterator of HeapPage, I need iterative access to the tuple array, so I wrote an array iterator myself and instantiated it to be the HeapPage iterator. I do not know if anyone else did the same.

Difficulties

It took me about 2-3 days to finish the work from start to end. I was not working on it all the time, so it was not that long time actually. I faced two troublesome bugs that took me some time to fix. The first is the hasNext() function of HeapFile iterator. My border condition was initially wrong. And I used "int / int" for upper rounding instead of "float / int", which cause trouble when number of columns is more than 2. To deal with these bugs, I used the convert method to test on my own data and finally found them.