

# Report

Class:

Tuple { fieldList (Field[])  
          schema (TupleDesc)  
          recordId (RecordId)

TupleDesc { itemList :[] item { Type  
                                  name

Catalog { tableMap (Map< Id , Table >)  
          idMap (Map< Name, Id >)

Heapfile { file (File)  
          tupleDesc (TupleDesc)

HeapPage { pid (HeapPageId)  
          td (TupleDesc)  
          tuples[] (Tuple)  
          header[] (Byte)  
          numslots

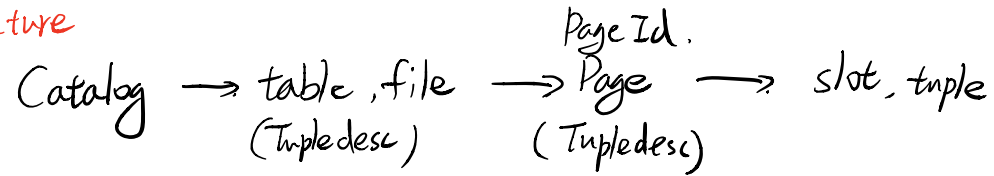
HeapPageId { tableId  
          pgNo

Table { file  
          name  
          pkeyfield

BufferPool { pageNum  
          pageMap (Map< PageId, Page >)

Seqscan { tid (TransactionId)  
          tableId  
          tableAlias  
          tupleIterator.

## Structure



Tuple, TupleDesc, HeapPage and HeapPageId:

I just strictly followed the document.

BufferPool:

In the function getPage, I ignored the permissions.

Catalog:

I defined two maps: Id to Table and Name to Id.

HeapFile:

To realize the function iterator, I defined a new class HeapFileIterator to construct the iterator.

SeqScan:

I used the HeapFile iterator.

I also changed the file build.xml. Line 46 the two symbols "\$" to "@".

I spent one and a half days on the lab.