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Branch: master DB2 / src / main / java / index / BPlusTreeMetadata.java

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dreamlegends init add all files

2c520b8 7 days ago

1 contributor

41 lines (32 sloc) 1.12 KB

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```
1 package index;
2
3 import databox.Type;
4 import io.PageAllocator;
5
6 /** Metadata about a B+ tree. */
7 class BPlusTreeMetadata {
8     // The page allocator used to persist the B+ tree. Every node of the B+ tree
9     // is stored on a single page allocated by this allocator.
10    private final PageAllocator allocator;
11
12    // B+ trees map keys (of some type) to record ids. This is the type of the
13    // keys.
14    private final Type keySchema;
15
16    // The order of the tree. Given a tree of order d, its inner nodes store
17    // between d and 2d keys and between d+1 and 2d+1 children pointers. Leaf
18    // nodes store between d and 2d (key, record id) pairs. Notable exceptions
19    // include The root node and leaf nodes that have been deleted from; these
20    // may contain fewer than d entries.
21    private final int order;
22
23    public BPlusTreeMetadata(PageAllocator allocator, Type keySchema, int order) {
24        this.allocator = allocator;
25        this.keySchema = keySchema;
26        this.order = order;
27    }
28
29    public PageAllocator getAllocator() {
30        return allocator;
31    }
32
33    public Type getKeySchema() {
34        return keySchema;
35    }
36
37    public int getOrder() {
38        return order;
39    }
40 }
```