

BTREE INDEXSCAN OPERATOR

```
1  package query;
2
3  import database.Database;
4  import database.DatabaseException;
5  import databox.DataBox;
6  import index.BPlusTree;
7  import table.Record;
8  import table.RecordId;
9  import table.Schema;
10
11 import java.util.ArrayList;
12 import java.util.Iterator;
13
14 public class BtreeIndexScanOperator extends QueryOperator {
15
16     public enum SearchType {
17         EQUAL,
18         GREATER,
19         LESS,
20         GREATER_OR_EQ,
21         LESS_OR_EQ
22     }
23
24     public BtreeIndexScanOperator(Database.Transaction transaction,
25                                   String tableName,
26                                   BPlusTree bPlusTree) throws QueryPlanException,
27                                   DatabaseException {
28         super(OperatorType.INDEXSCAN);
29         throw new UnsupportedOperationException("TODO: implement");
30     }
31
32     @Override
33     public Iterator<Record> iterator() throws DatabaseException {
34         throw new UnsupportedOperationException("TODO: implement");
35     }
36
37     @Override
38     public Schema computeSchema() throws QueryPlanException {
39         throw new UnsupportedOperationException("TODO: implement");
40     }
41
42     @Override
43     public Iterator<Record> execute(Object... arguments) throws QueryPlanException,
44     DatabaseException {
45         SearchType search_type = (SearchType)arguments[0];
46         DataBox val = (DataBox) arguments[1];
47
48         if (search_type == SearchType.EQUAL){
49             return find_equal(val);
50         }
51
52         return null;
53     }
54
55     public Iterator<Record> find_equal(DataBox val) throws DatabaseException{
56         throw new UnsupportedOperationException("TODO: implement");
57     }
58 }
```