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SequentialScanOperator.java

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 sjyk Added in homework hw4

25c1d7f on Oct 19, 2017

1 contributor

81 lines (67 sloc) 2.26 KB

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```
1 package edu.berkeley.cs186.database.query;
2
3 import java.util.Iterator;
4
5 import edu.berkeley.cs186.database.Database;
6 import edu.berkeley.cs186.database.DatabaseException;
7 import edu.berkeley.cs186.database.table.Record;
8 import edu.berkeley.cs186.database.table.Schema;
9 import edu.berkeley.cs186.database.table.stats.TableStats;
10
11 public class SequentialScanOperator extends QueryOperator {
12     private Database.Transaction transaction;
13     private String tableName;
14
15     /**
16      * Creates a new SequentialScanOperator that provides an iterator on all tuples in a table.
17      *
18      * NOTE: Sequential scans don't take a source operator because they must always be at the bottom
19      * of the DAG.
20      *
21      * @param transaction
22      * @param tableName
23      * @throws QueryPlanException
24      * @throws DatabaseException
25      */
26     public SequentialScanOperator(Database.Transaction transaction,
27                                   String tableName) throws QueryPlanException, DatabaseException {
28         super(OperatorType.SEQSCAN);
29         this.transaction = transaction;
30         this.tableName = tableName;
31         this.setOutputSchema(this.computeSchema());
32         this.stats = this.estimateStats();
33         this.cost = this.estimateIOCost();
34     }
35
36     public String getTableName() {
37         return this.tableName;
38     }
39
40     public Iterator<Record> iterator() throws DatabaseException {
41         return this.transaction.getRecordIterator(tableName);
42     }
43 }
```