## Chapter 4.1 Introduction of Physics Query Plan Operator

***Principle:***

The Physics Query Plan consists of operator, and each operator realizes one step of the plan. The Physics Operator is usually a realization of Relation Algebra Operator. But, the Physics Operator is also needed to do some other tasks which has nothing to do with Relation Algebra Operator.

***Example:***

*Scan* a table is calling each tuple of some Relation of Operation Object from Relation Algebra Expression into main memory. Of course, this relation is a Typical Operation Data of some other operations.

***Supplement:***

The concept *iterator* also needs to be introduced. It is an important method which is included in Operators which is used to transmit the request for tuples and results.

### Chapter 4.1.1 Scan Table

Principle:

Methods:

### Chapter 4.1.2 Time Sequence when Scan Table

### Chapter 4.1.3 Calculation Module of Physics Operator

### Chapter 4.1.4 Parameters to Measure the Cost

### Chapter 4.1.5 The I/O Cost of Scan Operator

### Chapter 4.1.6 The Iterator that used to Realize Physics Operator