## Chapter 5.7 Finishing Selection of Physics Query Plan

We already analyzed Query and convert it into Initialized Logical Query Plan, Through enlargement, we can use the same technology to Sort for Multi - Union, Multi - Intersection or Sort for random Combination or Exchange or Sort.

We need several steps to change Logic Plan into the whole Physical Query Plan. Here we still need to include several principal points:

1. In some early steps such as *Dynamic Programming Join Sequence*, and we has not selected the Algorithm, so we need to choose the *Execution Query Algorithm*.
2. For about when the Intermediate Result would be ***Materialized*** *( Materialized means to stored and saved in the Disk. )* and when it would be ***Pipeline Operation*** *( It only created in Main Memory and no need to be saved completely. )*
3. The comment for Physical Query Plan Operator, it needs to include the Access Detail to the Stored Relation and the related Algebra Operator Execution Detail.

In this chapter, we would not include all Operator Selection but only included two most important Operators: *Select and Join*. Whether to *Materialized* them or *Pipeline these Operators*. Also, we gives *Comments of Physical Query Plan*.

### Chapter 5.7.1 Select one Selection Method

### Chapter 5.7.2 Select Join Method

### Chapter 5.7.3 Pipeline Operation and Materialization

### Chapter 5.7.4 Unary Pipeline Operation

### Chapter 5.7.5 Pipeline Operation of Binary Operators

### Chapter 5.7.6 Sign used for Physics Query Plan

### Chapter 5.7.7 Sort of Physics Operator