

TAJO-1125

hyunsik

2014-10-21

Contents

Chapter 1

Root issue TAJO-1125

1.1 Summary

Separate logical plan and optimizer into a maven module

1.2 Description

We already have a bunch of codes for logical planner, its optimizer, expressions, and expression optimizer. They have played a key role in Tajo project.

As Tajo is being evolved, many parts started to require planner and optimization code. It's because we are trying to make good use of planning information in more parts.

But, since the planner and optimization parts are included in tajo-core, other maven modules should depend on `{{tajo-core}}` which is the biggest maven module in Tajo.

So, I propose to separate logical planner, logical optimizer, expression and expression optimizer from tajo-core into a separate maven module.

1.3 Attachments

No attachments

1.4 Commits

1. Commit **3c3bcce** by **Hyunsik Choi** (2014-10-25): TAJO-1125: Separate logical plan and optimizer into a maven module. (missed jar copy)
2. Commit **b143f99** by **Hyunsik Choi** (2014-10-25): TAJO-1125: Separate logical plan and optimizer into a maven module.

Closes #210

1.5 Comments

1. **hyunsik:** If there are any objection, I'll go ahead on this issue. It may cause not few conflicts against other guys' patches in progress.
2. **hyunsik:** committed to master branch. Thank you for the quick review.

3. **hudson:** SUCCESS: Integrated in Tajo-master-build #418 (See [<https://builds.apache.org/job/Tajo-master-build/418/>])

TAJO-1125: Separate logical plan and optimizer into a maven module. (hyunsik: rev b143f991242b79fa8479148cd79fad7d4f8f2146)

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- * tajo-plan/src/main/java/org/apache/tajo/plan/exprrewrite/EvalTreeOptimizer.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/StoreTableNode.java
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4. **hudson:** SUCCESS: Integrated in Tajo-master-CODEGEN-build #60 (See [<https://builds.apache.org/job/Tajo-master-CODEGEN-build/60/>])
- TAJO-1125: Separate logical plan and optimizer into a maven module. (hyunsik: rev

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- * tajo-common/src/main/java/org/apache/tajo/storage/VTuple.java
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- * tajo-core/src/main/java/org/apache/tajo/engine/codegen/LegacyFunctionBindingEmitter.java
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- * tajo-core/src/main/java/org/apache/tajo/engine/planner/NamedExprsManager.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/GeneralFunctionEval.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/AggFunction.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Round.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestHashSemiJoinExec.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/ConstEval.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/TestUniformRangePartition.java
- * tajo-plan/src/test/java/org/apache/tajo/plan/TestLogicalNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/optimizer/eval/rules/ConstantPropagation.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/BinaryNode.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestExternalSortExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/CountValueDistinct.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/TruncateTableNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/graph/DirectedGraphVisitor.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/AvgInt.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/WindowAggNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/WindowAggExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/EvalType.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/WindowAggFunc.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/TableSubQueryNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/PhysicalPlanUtil.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/geoip/GeoIPCountryText.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/AggregationExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/join/GreedyHeuristicJoinOrderAlgorithm.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/EvalNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/Chr.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/WindowSpec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/SumLongDistinct.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/IndexScanNode.java
- * tajo-core/pom.xml
- * tajo-plan/src/main/java/org/apache/tajo/plan/Target.java
- * tajo-common/src/test/java/org/apache/tajo/util/graph/TestSimpleDirectedGraph.java
- * tajo-common/src/main/java/org/apache/tajo/storage/Tuple.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/MaxFloat.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/joinorder/JoinEdge.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/global/TestMasterPlan.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/Rpad.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/HashLeftAntiJoinExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/graph/Graph.java

- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/AlterTableNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/SumFloatDistinct.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestHashAntiJoinExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/MaxInt.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/Date.java
- * tajo-core/src/main/java/org/apache/tajo/engine/optimizer/eval/Prioritized.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/join/JoinOrderAlgorithm.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/EvalTreeFactory.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/AlterTablespaceNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/Concat_ws.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/NodeType.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/IntersectNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/GroupbyNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/verifier/LogicalPlanVerifier.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/QueryUnit.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/verifier/VerifyException.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Radians.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/Decode.java
- * tajo-plan/src/test/java/org/apache/tajo/plan/TestExprAnnotator.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/exprrewrite/rules/ConstantPropagation.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/HashShuffleFileWriteExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/codegen/TajoGeneratorAdapter.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/TestSimpleUndirectedGraph.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/GroupElement.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/SubQuery.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/SortNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/DropDatabaseNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Atan.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/algebra/BaseAlgebraVisitor.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestSortExec.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/serder/LogicalNodeAdapter.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/InsertNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/NotEval.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/FieldEval.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/LikePredicateEval.java
- * tajo-core/src/main/java/org/apache/tajo/engine/json/CoreGsonHelper.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/PatternMatchPredicateEval.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/datetime/AddDays.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/datetime/DatePartFromTimestamp.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/CastEval.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/EvalExprExec.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/BinaryNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/BSTIndexScanExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/Locate.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Atan2.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/NLJoinExec.java

5. **hudson:** SUCCESS: Integrated in Tajo-master-build #419 (See [<https://builds.apache.org/job/Tajo-master-build/419/>])
 TAJO-1125: Separate logical plan and optimizer into a maven module. (missed jar copy)
 (hyunsik: rev 3c3bcce8e3ddac4480499be3edae69bb0d2554a3)
 * tajo-dist/pom.xml

6. **hudson:** SUCCESS: Integrated in Tajo-master-CODEGEN-build #61 (See [<https://builds.apache.org/job/Tajo-master-CODEGEN-build/61/>])
TAJO-1125: Separate logical plan and optimizer into a maven module. (missed jar copy)
(hyunsik: rev 3c3bcce8e3ddac4480499be3edae69bb0d2554a3)
* tajo-dist/pom.xml

1.6 Pull requests

1.6.1 Pull request 210

Title: TAJO-1125: Separate logical plan and optimizer into a maven module.

Author: hyunsik

Date: 2014-10-24

Status: closed

Comments:

1. **hyunsik** (2014-10-25): Actually, this patch includes the module separation and package move. I rearrange the packages of plan, optimizer, and expressions. In some viewpoint, it may be not unnecessary.

But, the module separation inevitably causes conflicts against the patches for plan, optimizer, and expression part. The package rename is very trivial than the module separation. It just requires to rearrange package imports.

The reason why this patch includes the package rename is to cleanup the package. The current package hierarchy of plan, optimizer, and expressions is too ugly and inconsistent.

2. **hyunsik** (2014-10-25): This patch is very easy to be conflict against other changes. So, I hope that some guy reviews it soon.
3. **babokim** (2014-10-25): +1
This patch is needed quickly for implementation hbase storage.