

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. **githubbot:** GitHub user hyunsik opened a pull request:

<https://github.com/apache/tajo/pull/210>

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

I moved the followings to org.apache.tajo.plan in tajo-plan maven module.

- * tajo.engine.planner.logical
- * tajo.engine.planner.eval
- * tajo.engine.planner.LogicalPlan
- * tajo.engine.planner.LogicalPlanner
- * tajo.engine.planner.LogicalOptimizer

...

Also, I moved Tuple, VTuple, and StorageConstants to tajo-common. Because the right module of StorageConstants is tajo-storage, it's a temporary solution. I'll improve it more later.

In addition, I changed LogicalPlanner and LogicalOptimizer to take OverridenConf instead of QueryContext due to dependency problem,

You can merge this pull request into a Git repository by running:

```
$ git pull https://github.com/hyunsik/tajo TAJO-1125
```

Alternatively you can review and apply these changes as the patch at:

<https://github.com/apache/tajo/pull/210.patch>

To close this pull request, make a commit to your master/trunk branch with (at least) the following in the commit message:

This closes #210

```
commit efd9dfc31ed2a97a0885e2185d8fa5b1975d1fcd
Author: HyungJun Kim <babokim@babokim-macbook-pro.local>
Date: 2014-10-19T01:56:10Z
```

TAJO-1121: Remove the 'v2' storage package.

```
commit d34218722e22ce6fec6a5deaf399a16b5cfa2edd
Author: Hyunsik Choi <hyunsik@apache.org>
Date: 2014-10-21T22:15:05Z
```

Merge branch 'TAJO-1121' of <https://github.com/babokim/tajo>

```
commit 11ec5fdc8a0c90e4c017614c9aab04fe60e71f4a
Author: Hyunsik Choi <hyunsik@apache.org>
Date: 2014-10-24T23:22:53Z
```

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

```
commit 80969fb4230afc588ff08052ad0eb13364e97826
Author: Hyunsik Choi <hyunsik@apache.org>
Date: 2014-10-24T23:29:09Z
```

Merge branch 'master' of <https://git-wip-us.apache.org/repos/asf/tajo> into TAJO-1125

Conflicts:

tajo-core/src/main/java/org/apache/tajo/engine/planner/PhysicalPlannerImpl.java
tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/HashShuffleFileWriteExec.java
tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/PartitionMergeScanExec.java
tajo-core/src/main/java/org/apache/tajo/master/querymaster/Repartitioner.java
tajo-core/src/main/java/org/apache/tajo/master/querymaster/SubQuery.java

3. **githubbot:** Github user hyunsik commented on the pull request:

<https://github.com/apache/tajo/pull/210#issuecomment-60470554>

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.

4. **githubbot:** Github user hyunsik commented on the pull request:

<https://github.com/apache/tajo/pull/210#issuecomment-60470571>

This patch is very easy to be conflict against other changes. So, I hope that some guy reviews it soon.

5. **githubbot:** Github user babokim commented on the pull request:

<https://github.com/apache/tajo/pull/210#issuecomment-60475843>

+1

This patch is needed quickly for implementation hbase storage.

6. **githubbot:** Github user asfgit closed the pull request at:

<https://github.com/apache/tajo/pull/210>

7. **hyunsik:** committed to master branch. Thank you for the quick review.

8. **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)

* tajo-core/src/main/java/org/apache/tajo/engine/planner/global/builder/DistinctGroupbyBuilder.java

* tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/DistinctGroupbyFirstAggregationExec.java

* tajo-core/src/main/java/org/apache/tajo/engine/eval/ConstEval.java

* tajo-plan/src/main/java/org/apache/tajo/plan/expr/LikePredicateEval.java

* tajo-plan/src/main/java/org/apache/tajo/plan/expr/EvalTreeUtil.java

* tajo-core/src/main/java/org/apache/tajo/engine/optimizer/eval/rules/ConstantFolding.java

* tajo-core/src/main/java/org/apache/tajo/engine/exception/VerifyException.java

* tajo-core/src/main/java/org/apache/tajo/engine/function/math/Div.java

* tajo-core/src/main/java/org/apache/tajo/engine/function/math/Degrees.java

- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/RoundFloat8.java
- * tajo-core/src/main/java/org/apache/tajo/engine/plan/EvalTreeProtoDeserializer.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/GroupbyNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/AlgebraicException.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/CharLength.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/RelationNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/StoreTableExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/PhysicalPlannerImpl.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/LogicalOptimizer.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/EvalType.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/LogicalPlanVerifier.java
- * tajo-catalog/tajo-catalog-common/src/main/java/org/apache/tajo/catalog/CatalogUtil.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/ExprsVerifier.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/nameresolver/ResolverByRels.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/InitCap.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Acos.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/rewrite/RewriteRule.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/nameresolver/NameResolvingMode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/WindowSpec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/SumInt.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/SortBasedColPartitionStoreExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/graph/Graph.java
- * tajo-core/src/main/resources/webapps/worker/querytasks.jsp
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/NamedExprsManager.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/SortAggregateExec.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestMergeJoinExec.java
- * tajo-common/src/main/java/org/apache/tajo/util/graph/SimpleDirectedGraph.java
- * tajo-core/src/main/java/org/apache/tajo/util/IndexUtil.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/LogicalPlanner.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/window/RowNumber.java
- * tajo-common/src/main/java/org/apache/tajo/util/graph/DirectedGraphCursor.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/ScanNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/EvalNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/WindowSpec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/Substr.java
- * tajo-storage/src/main/java/org/apache/tajo/storage/StorageUtil.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Pi.java
- * tajo-core/src/test/java/org/apache/tajo/master/TestExecutionBlockCursor.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/TypeDeterminant.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/Upper.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/AlgebraicException.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/exprrewrite/EvalTreeOptimizationRule.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/InvalidQueryException.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/UnaryEval.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/rewrite/rules/PartitionedTableRewriter.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/algebra/BaseAlgebraVisitor.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/SimpleAlgebraVisitor.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/rewrite/ProjectionPushDownRule.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Tan.java
- * tajo-core/src/main/java/org/apache/tajo/engine/codegen/TajoGeneratorAdapter.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/serde/PlanGsonHelper.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/PartialBinaryExpr.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/StrPosb.java

- * tajo-plan/src/main/java/org/apache/tajo/plan/algebra/AlgebraVisitor.java
- * CHANGES
- * tajo-core/src/main/java/org/apache/tajo/engine/function/geoip/GeoIPInCountryInet4.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/AbsFloat.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/MaxString.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/MemSortExec.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/Repartitioner.java
- * tajo-core/src/main/proto/Plan.proto
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/LogicalPlanPreprocessor.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/RandomInt.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/AggFunction.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/NamedExprsManager.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/StrPos.java
- * tajo-core/src/main/java/org/apache/tajo/master/NonForwardQueryResultScanner.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/BNLJoinExec.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/TestProgressExternalSortExec.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/LogicalRootNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/ExceptNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/GroupbyNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Radians.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/QueryInProgress.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestExternalSortExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/codegen/EvalCodeGenContext.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/UnaryNode.java
- * tajo-core/src/test/java/org/apache/tajo/master/querymaster/TestKillQuery.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/AlterTablespaceNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/global/MasterPlan.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Mod.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/RegexPredicateEval.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/joinorder/JoinGraph.java
- * tajo-core/src/main/java/org/apache/tajo/engine/utils/TupleUtil.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/verifier/ExprsVerifier.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/nameresolver/ResolverBySubExprsAndRels.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestPhysicalPlanner.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/TypeDeterminant.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/RegexReplace.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/DistinctGroupbyHashAggregationExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/UnionExec.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/QueryJobManager.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/AlgebraicUtil.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/nameresolver/ResolverByRelsAndSubExprs.java
- * tajo-core/src/main/java/org/apache/tajo/worker/ExecutionBlockSharedResource.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/SortNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/Right.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/ExceptNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/BetweenPredicateEval.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/ScanNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/CastEval.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/TestSimpleDirectedGraph.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/ExprNormalizer.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/Sleep.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/graph/UndirectedGraph.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/AbsLong.java

- * tajo-core/src/test/java/org/apache/tajo/engine/eval/TestEvalTreeUtil.java
- * tajo-plan/pom.xml
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/CaseWhenEval.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestHashAntiJoinExec.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/InvalidEvalException.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/LogicalPlan.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/Lower.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/LogicalNodeVisitor.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/ExprAnnotator.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Sqrt.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/TestLogicalOptimizer.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/PlanString.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestLeftOuterNLJoinExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/QuoteIdent.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/PersistentStoreNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/ExplainLogicalPlanVisitor.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/datetime/DatePartFromTimestamp.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/StoreTableNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/function/WindowAggFunc.java
- * tajo-core/src/main/proto/TajoWorkerProtocol.proto
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestFullOuterMergeJoinExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Sign.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/rewrite/QueryRewriteEngine.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/Date.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/SignedEval.java
- * tajo-core/src/test/java/org/apache/tajo/engine/util/TestTupleUtil.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/EvalExprExec.java
- * tajo-common/src/main/java/org/apache/tajo/util/graph/DirectedGraph.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/AggregationFunctionCallEval.java
- * tajo-common/src/main/java/org/apache/tajo/util/graph/UndirectedGraph.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Round.java
- * tajo-project/pom.xml
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/CastEval.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/geoip/GeoIPInCountryText.java
- * tajo-core/src/main/java/org/apache/tajo/engine/optimizer/eval/EvalTreeOptimizationRule.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/serder/EvalTreeProtoSerializer.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/nameresolver/ResolverByLegacy.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/FunctionEval.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/nameresolver/NameResolver.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/rewrite/rules/FilterPushDownRule.java
- * tajo-common/src/main/java/org/apache/tajo/storage/VTuple.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/DropDatabaseNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/SelectableNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/join/JoinOrderAlgorithm.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/CreateDatabaseNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/EvalTreeFactory.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/datetime/DatePartFromDate.java
- * tajo-storage/src/test/java/org/apache/tajo/storage/TestStorages.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/TruncateTableNode.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/TestPlannerUtil.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/IsNullEval.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/SumDouble.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/util/SchemaUtil.java
- * tajo-core/src/main/java/org/apache/tajo/engine/json/CoreGsonHelper.java

- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/SumLong.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/joinorder/GreedyHeuristicJoinOrderAlgorithm.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/CreateTableNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/HavingNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/serde/EvalNodeAdapter.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/GroupElement.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/EvalNodeVisitor2.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/PartitionedTableScanNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/DistinctGroupbyThirdAggregationExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/MinFloat.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/SumDoubleDistinct.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/BaseAlgebraVisitor.java
- * tajo-core/src/main/java/org/apache/tajo/engine/codegen/ExecutorPreCompiler.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/NLLeftOuterJoinExec.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/TableSubQueryNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/Coalesce.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/TestSimpleUndirectedGraph.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/nameresolver/ResolverByRelsAndSubExprs.java
- * tajo-core/src/test/java/org/apache/tajo/master/TestGlobalPlanner.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/nameresolver/ResolverByRels.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/ToBin.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/join/JoinEdge.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/JoinNode.java
- * tajo-core/src/test/java/org/apache/tajo/engine/planner/physical/TestLeftOuterHashJoinExec.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/LogicalPlan.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/function/AggFunction.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/function/FunctionContext.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Pow.java
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9. **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 b143f991242b79fa8479148cd79fad7d4f8f2146)

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- * tajo-plan/src/main/java/org/apache/tajo/plan/rewrite/BasicQueryRewriteEngine.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Sqrt.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/ShuffleFileWriteNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/LogicalNodeVisitor.java
- * tajo-core/src/test/java/org/apache/tajo/master/TestRepartitioner.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/CountRows.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/SimpleAlgebraVisitor.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/ExceptNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/LogicalOptimizer.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/EvalNodeVisitor.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/GeneralFunction.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/datetime/DateTimePartFromUnixTimestamp.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/PlanString.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/CreateTableNode.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/DropDatabaseNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/nameresolver/ResolverByLegacy.java
- * tajo-core/src/test/java/org/apache/tajo/engine/query/TestJoinBroadcast.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/rewrite/rules/PartitionedTableRewriter.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/InEval.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/EvalTreeFactory.java
- * tajo-storage/src/test/java/org/apache/tajo/storage/TestStorages.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/verifier/ExprsVerifier.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/AbsInt.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/expr/InEval.java
- * tajo-catalog/tajo-catalog-client/src/main/java/org/apache/tajo/catalog/CatalogService.java
- * tajo-core/src/main/java/org/apache/tajo/worker/TaskAttemptContext.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/physical/NLeftOuterJoinExec.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/math/Pow.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/logical/LogicalNode.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/AvgDouble.java
- * tajo-core/src/main/java/org/apache/tajo/engine/planner/logical/WindowSpec.java
- * tajo-plan/src/main/java/org/apache/tajo/plan/util/SchemaUtil.java
- * tajo-core/src/main/java/org/apache/tajo/engine/eval/PartialBinaryExpr.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/string/Ascii.java

- * tajo-core/src/main/java/org/apache/tajo/engine/eval/FunctionEval.java
- * tajo-core/src/main/java/org/apache/tajo/engine/function/builtin/MaxDouble.java
- * 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

10. **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
11. **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.