Phoenix对cdh支持有限,在早期, 官方没有提供cdh适配的版本, 当前官方也只提供了 cdh-5.11.2的适配版本, 经测试 , 这个版本在cdh5.6和cdh5.7均不能运行(其他版本没有 测试), 如果需要适配其他cdh版本, 需要修改Phoenix的源码并编译打包。

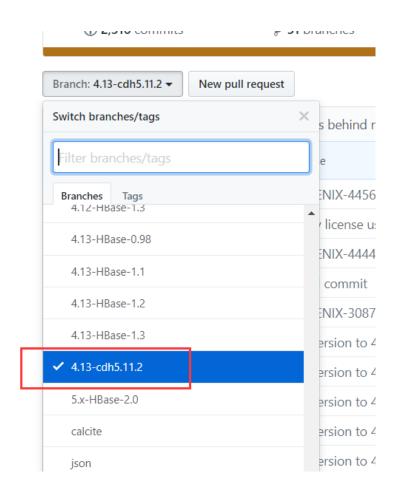
#### 一、修改源码

使用官方4.13.2-cdh5.11.2分支,修改为适配cdh5.7.0的版本

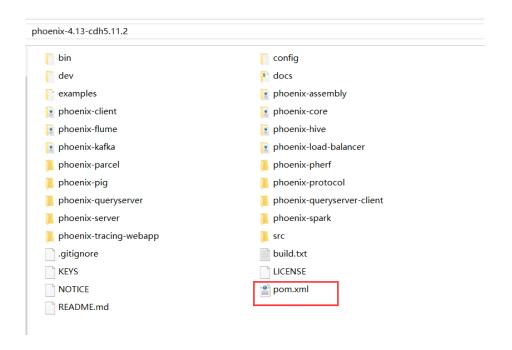
1. 下载源码

源码地址: https://github.com/apache/phoenix

选择版本:选择分支4.13.2-cdh5.11.2



- 2. 修改pom文件
- 2.1 修改root路径下的pom文件



#### 修改两个地方:

修改1:将phoenix项目的版本统一为:4.13.2-cdh5.7.0

```
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http
 <modelVersion>4.0.0</modelVersion>
 <groupId>org.apache.phoenix</groupId>
 <artifactId>phoenix</artifactId>
 <version>4.13.2-cdh5.11.2
 <packaging>pom</packaging>
                           ➡修改为: 4.13.2-cdh5.7.0
 <name>Apache Phoenix</name>
 <description>A SQL layer over HBase</description>
 <licenses>
   cense>
     <name>The Apache Software License, Version 2.0
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
    <comments/>
```

#### 修改2:

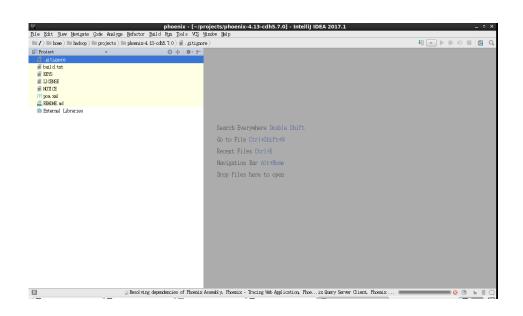
```
com.cloudera.cdh
```

## 2.2 修改其他子项目的pom文件

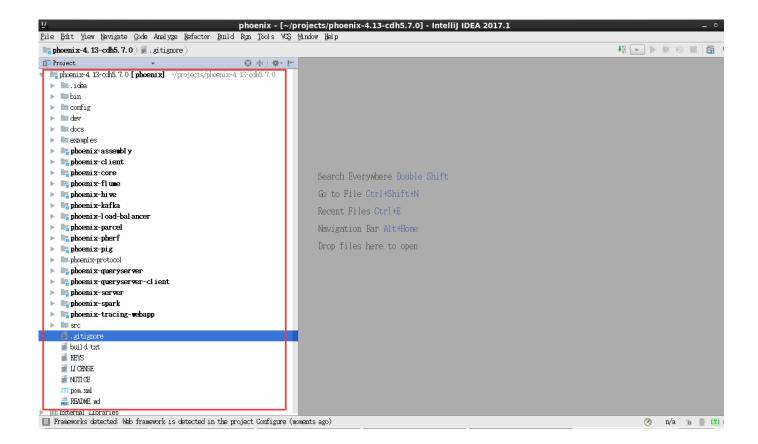
将phoenix项目的版本统一为: 4.13.2-cdh5.7.0

- 3. 修改源码
- 3.1 将使用idea打开上面修改过的项目

修改项目目录名称为: phoenix-4.13-cdh5.7.0, 然后使用idea导入项目:



导入后, 开始下载pom相关的依赖, 等待很长时间后, 可以看到项目的目录:



#### 3.2 打包

进入到项目的目录 ,使用mvn package -DskipTests打包项目

```
[hadoop@spark1234 projects]$ cd phoenix-4.13-cdh5.7.0 [hadoop@spark1234 phoenix-4.13-cdh5.7.0]$ mvn package -DskipTests [INFO] Scanning for projects... [WARNING] [WARNING] Some problems were encountered while building the effective model for org.apache.phoenix:phoenix-core:jar:4. 13.2-cdh5.7.0 [WARNING] Reporting configuration should be done in <reporting> section, not in maven-site-plugin <configuration> as reportPlugins parameter. @ org.apache.phoenix:phoenix-core:[unknown-version], /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/pom.xml, line 65, column 23 [WARNING]
```

## 3.3 第一次打包碰到的错误

## 3.3.1 第一次打包碰到4个错误

## 执行失败,失败的截图如下:

(1)、第一个错误类: MetricsIndexerSourceImpl

#### 源码所在的路径:

/home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-

core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java/org/apache/phoenix/hbase/indexerSourceImpl.java/org/apache/p

```
[INFO] Finished at: 2018-02-20T07:10:36+08:00
[INFO] Finished Memory: 65M/519M
[INFO] Finished to execute goal org.apache.maven.plugins:maven-compiler-plugin:3.0:compile (default-compile) on project phoenix-core: Compilation failure: Compilation failure:
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java:[21,38] 找不到符号
[ERROR] 符号: 类 MutableFastCounter
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.java:[29,19] 找不到符号
[ERROR] 符号: 类 MutableFastCounter
[ERROR] /home/hadoop/projects/phoenix.hbase.index.metrics.MetricsIndexerSourceImpl
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl
[ERROR] /home/hadoop/projects/phoenix-hbase.index.metrics/MetricsIndexerSourceImpl
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/metrics/metrics/metrics/metrics/metrics/metrics/metrics/metrics/metrics/metrics/metrics/metrics/metrics/metrics/met
```

#### (2)、第二个错误类:DelegateHTable

```
[ERROR] 符号: 类 MutableFastCounter
[ERROR] 位置: 类 org.apache.phoenix.hbase.index.metrics.MetricsIndexerSourceImpl
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/execute/DelegateHTab
[e.java:[282,5] 方法不会覆盖或实现超类型的方法
[ENOR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/execute/DelegateHTab
[e.java:[284,17] 找不到符号
[ERROR] 符号: 方法 setRpcTimeout(int)
[ERROR] 位置: 类型为org.apache.hadoop.hbase.client.HTableInterface的变量 delegate
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/execute/DelegateHTab
[e.java:[287,5] 方法不会覆盖或实现超类型的方法
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/execute/DelegateHTab
[e.java:[289,24] 找不到符号
[ERROR] 符号: 方法 getRpcTimeout()
[ERROR] 位置: 类型为org.apache.hadoop.hbase.client.HTableInterface的变量 delegate
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/execute/DelegateHTab
[e.java:[292,5] 方法不会覆盖或实现超类型的方法
```

#### 源码所在路径:

/home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/execute/DelegateHTable.java

## (3)、第三个错误类:TephraTransactionTable.java

```
[ERROR] 付写: 为法 getuperationTimeout()
[ERROR] 位置: 类型为org.apache.hadoop.hbase.client.HTableInterface的变量 delegate
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/TephraTransactionTable.java:[331,5] 方法不会覆盖或实现超类型的方法
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/TephraTransactionTable.java:[336,5] 方法不会覆盖或实现超类型的方法
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/TephraTransactionTable.java:[341,5] 方法不会覆盖或实现超类型的方法
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/TephraTransactionTable.java:[346,5] 方法不会覆盖或实现超类型的方法
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/OmidTransactionTable.java:[346,5] 方法不会覆盖或实现超类型的方法
```

源码所在路径:/home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/TephraTransactionTable.java

## (4)、第四个错误类:OmidTransactionTable

```
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/TephraTr ansactionTable.java:[346,5] 方法不会覆盖或实现超类型的方法
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/OmidTransactionTable.java:[340,5] 方法不会覆盖或实现超类型的方法
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/OmidTransactionTable.java:[346,5] 方法不会覆盖或实现超类型的方法
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/OmidTransactionTable.java:[352,5] 方法不会覆盖或实现超类型的方法
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/OmidTransactionTable.java:[358,5] 方法不会覆盖或实现超类型的方法
[ERROR] -> [Help 1]
```

源码所在路径:/home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/OmidTransactionTable.java

#### 3.3.2 修改源码

## (1)、第一个错误

使用idea打开源码所在的位置:/home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/hbase/index/metrics/MetricsIndexerSourceImpl.jav

```
🖥 phoenix-core 🕽 🖿 src 🖒 🖿 main 🕽 🛅 java 🖒 🖿 org 🖒 🖿 apache 🕽 🖿 phoenix 🖒 🖿 hbase 🖒 🗀 index 🖒 🖿 metrics 🕥 🌜 Metrics1 ndexerSource1 mpl
  MetricsIndexerSourceImpl.java. ×
            package org.apache.phoenix.hbase.index.metrics;
           import org.apache.hadoop.hbase.metrics.BaseSourceImpl;
            import org.apache.hadoop.metrics2.MetricHistogram
            import org.apache.hadoop.metrics2.lib.MutableFastCounter;
           * Implementation for tracking Phoenix Indexer metrics.
            public class MetricsIndexerSourceImpl extends BaseSourceImpl implements MetricsIndexerSource {
                 private final MetricHistogram indexPrepareTimeHistog
                 private final MutableFastCounter slowIndexPrepareCalls;
                private fina. MetricHistogram indexWriteTimeHisto;
private fina. MutableFastCounter slowIndexWriteCalls;
private fina. MetricHistogram preWALRestoreTimeHisto;
private fina. MutableFastCounter slowPreWALRestoreCalls;
private fina. MetricHistogram postPutTimeHisto;
                 private fina. MutableFastCounter slowPostPutCalls;
                private fina MetricHistogram postDeleteTimeHisto;
private fina MutableFastCounter slowPostDeleteCalls;
  36
37
                 private fina. MetricHistogram postOpenTimeHisto;
                 private fina. MutableFastCounter slowPostOpenCalls;
                 private fina. MetricHistogram duplicateKeyTimeHisto
  41
                 private fina. MutableFastCounter slowDuplicateKeyCalls;
   42
                 public MetricsIndexerSourceImpl() { this(METRICS_NAME, METRICS_DESCRIPTION, METRICS_CONTEX'
```

将代码中所有的MutableFastCounter修改为MutableFastCounter。 修改后,不再报错:

```
101 =
phoenix-core > 🖿 src > 🖿 main > 📑 java > 🖿 org > 🖿 apache > 🖿 phoenix > 🖿 hose > 🖿 index > 🖿 metrics > 🥌 MetricsIndexerSourceImpl
  MetricsIndexerSourceImpl.java ×
         MetricsIndexerSourceImpl
         import org.apache.hadoop.hbase.metrics.BaseSourceImpl;
         import org.apache.hadoop.metrics2.MetricHistogram
        import org.apache.hadoop.metrics2.lib MutableCounter;
         * Implementation for tracking Phoenix Indexer metrics.
 24
 25
        public class MetricsIndexerSourceImpl extends BaseSourceImpl implements MetricsIndexerSource {
             private final MetricHistogram indexPrepareTimeHisto;
             private final MutableCounter slowIndexPrepareCalls;
 29
             private final MetricHistogram indexWriteTimeHisto;
 31
             private final MutableCounter slowIndexWriteCalls;
             private final MetricHistogram preWALRestoreTimeHisto;
             private final MutableCounter slowPreWALRestoreCalls;
private final MetricHistogram postPutTimeHisto;
 34
 35
             private final MutableCounter slowPostPutCalls;
             private final MetricHistogram postDeleteTimeHisto;
             private final MutableCounter slowPostDeleteCalls;
             private final MetricHistogram postOpenTimeHisto;
 38
             private final MutableCounter slowPostOpenCalls;
 40
             private final MetricHistogram duplicateKeyTimeHisto;
             private final MutableCounter slowDuplicateKeyCalls;
 41
 42
             public MetricsIndexerSourceImpl() { this(METRICS_NAME, METRICS_DESCRIPTION, METRICS_CONTEXT, METRICS_J
 43
 46
 47
             public MetricsIndexerSourceImpl(String metricsName, String metricsDescription,
 48
                 String metricsContext, String metricsJmxContext) {
 49
                 super(metricsName, metricsDescription, metricsContext, metricsJmxContext);
 50
 51
                 indexPrepareTimeHisto = getMetricsRegistry().newHistogram(INDEX_PREPARE_TIME, INDEX_PREPARE_TIME_D
                 slowIndexPrepareCalls = getMetricsRegistry().newCounter(SLOW INDEX PREPARE, SLOW INDEX PREPARE DES
```

## (2)、第二个错误

使用idea打开源码所在的位置:/home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/execute/DelegateHTable.java

```
return delegate.checkAndMutate(row, family, qualifier, compareOp, val
exception
execute
     🌀 🦫 AggregatePl an
     © % BaseQuervPlan
                                283
                                               public void setRpcTimeout(int i) {
     🌀 🖫 ClientAggregatePlan
                                                    delegate.setRpcTimeout(i);
     🏮 🖫 ClientProcessingPlan
                                                       Cannot resolve method 'setRpcTimeout(int)'
                                 286
     💿 🖫 ClientScanPlan
                                287

→ □ CommitException

                                               public int getRpcTimeout() {
     💿 🖫 Correl atePl an
                                                    return delegate.getRpcTimeout();
     🏮 🦆 CursorFetchPlan
                                 290
     💿 🦫 DelegateHTable
                                291
                                                @Override
     🏮 🖫 Del egateQueryPl an
                                               public void setOperationTimeout(int i) {
     DescVarLengthFastByteCompa
                                                    delegate.setOperationTimeout(i);
     💿 🖫 HashJoinPlan
     😊 🖫 Literal Resul tI terationPlan 296
     © ™ MutationState
                                               public int getOperationTimeout() {
     RuntimeContext
                                 298
                                                    return delegate.getOperationTimeout();
     c = RuntimeContextImpl
     🌀 🦆 ScanPl an
     💿 🖫 SortMergeJoinPlan
     🏮 🖫 TupleProjectionPlan
                                 303 🜒
                                                public boolean[] existsAll(List<Get> gets) throws IOException {
     Tunl eProjector
                                 304
                                                    return delegate.existsAll(gets);
     💿 🖆 UnionPlan
```

## 其中delegate的变量声明为:

protected final HTableInterface delegate;

由于delegate没有setRpcTimeout、getRpcTimeout、setOperationTimeout和 getOperationTimeout四个方法,所以报错,修改这段代码如下:

```
public void setRpcTimeout(int i) {
1
           delegate.getConfiguration().set(HConstants.HBASE_RPC_TIMEOUT_KEY,
2
   String.valueOf(i));
3
       }
4
5
       public int getRpcTimeout() {
6
            return
   Integer.parseInt(delegate.getConfiguration().get(HConstants.HBASE_RPC_TIMEOUT_
7
       }
8
9
       public void setOperationTimeout(int i) {
10
   delegate.getConfiguration().set(HConstants.HBASE_CLIENT_OPERATION_TIMEOUT,
   String.valueOf(i));
11
       }
12
13
       public int getOperationTimeout() {
14
   Integer.parseInt(delegate.getConfiguration().get(HConstants.HBASE_CLIENT_OPERA
   TION_TIMEOUT));
15
       }
16
```

## (3)、第三个错误、第四个错误

/home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/TephraTransactionTable.java

```
CompareOp compareOp, byte[] value, RowMutations mutation)
              327
                                  throws IOException {
               328
                              return transactionAwareHTable.checkAndMutate(row, family, qualifier, compareOp, value, r
              329
                          public void setOperationTimeout(int i) {
              333
                                transactionAwareHTable.setOperationTimeout(i);
              334
               336
                          @Override
                                     public int
unsactionContext
unsactionTable
                          public void setRpcTimeout(int i) {
«Transactional Table
              343
                                transactionAwareHTable.setRpcTimeout(i);
:TransactionContext
lransactionContext
               345
ransactionTable
                          @Override
              346
:tionFactory
                          public int getRpcTimeout() { return 0; //transactionAwareHTable.getRpcTimeout(); }
               347
              350
              351
```

将四个@Override给去掉即可。

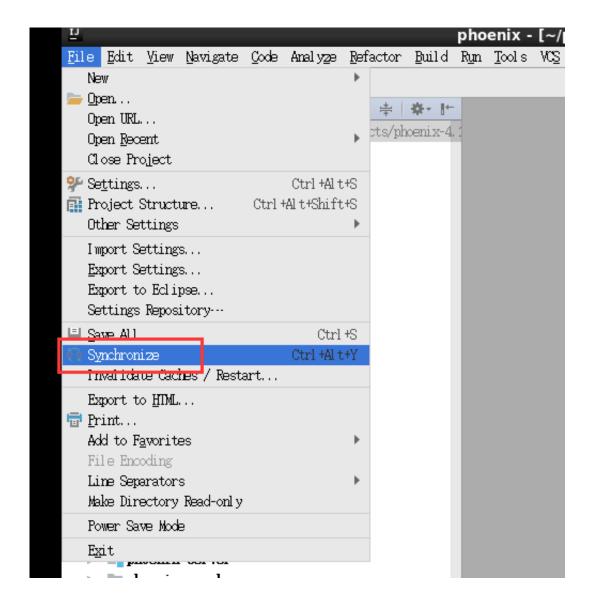
## (4)、第四个错误

/home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-core/src/main/java/org/apache/phoenix/transaction/OmidTransactionTable.java

```
optimize
 🖿 parse
                                340
                                             @Override
 nrotobuf
                                341
                                             public int getOperationTimeout() {
 🖿 query
                                342
                                                  // TODO Auto-generated method stub
                                343
                                                  return 0;
 replication
                                344
 schema.
                                345
 🖿 trace
                               346
                                             @Override
 transaction
                                             public int getRpcTimeout() {
    💿 🖫 OmidTransactionContext
                                348
                                                 // TODO Auto-generated method stub
    💿 🖫 OmidTransactionTable
                                                 return 0;
    🔳 🖆 PhoenixTransactional Table
    PhoenixTransactionContext
                                             @Override
    😊 🖫 TephraTransactionContext
                                             public void setOperationTimeout(int arg0) {
    😊 🖫 TephraTransactionTable
                                                 // TODO Auto-generated method stub
    💿 🖫 TransactionFactory
                                356
 util 🖿
                                357
erview. html
                                            @Override
rœs
                                             public void setRpcTimeout(int arg0) {
                                                  // TODO Auto-generated method stub
                                                  phoenix - [~/IdeaProjects/phoenix-4.13-cdh5.7.0] -
                                361
                                                  [phoenix-core] - ~/IdeaProjects/phoenix-4.13-cdh5.7.0/
                                                 phoenix-core/src/main/iava/org/apache/phoenix/execute/
```

将四个@Override给去掉即可。

修改完后 同步到磁盘 , 即可使用mvn继续打包了:



#### 3.4 继续打包 , 第二次错误

```
TERROR] Faited to execute goal org.apache.maven.ptugins.maven-compiler-ptugins.o.compile (default-compile) on project phoenix-hive: Compilation failure
[ERROR] /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-hive/src/main/java/org/apache/phoenix/hive/PhoenixStorageHandler.java:[170,45] 找不到符号
[ERROR] 符号: 方法 loadClass(java.lang.String)
[ERROR] 位置: 类 org.apache.hadoop.hive.common.JavaUtils
[ERROR] -> [Help 1]
```

使用idea定位到源码所在位置: /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-hive/src/main/java/org/apache/phoenix/hive/PhoenixStorageHandler.java

```
olecr
  ▼ 🖿 main
                                                 PhoenixStorageHandler configureJobProperties()
    ▼ 📄 java
                                                    public void configureTableJobProperties(TableDesc tableDesc, Map<String, String>
       🔻 🖿 org. apache, phoenix, hive
                                                            iobProperties) {
         constants
                                                        configureJobProperties(tableDesc, jobProperties);
          mapreduce
         ▶ 🖿 objectinspector
                                                     /unchecked, rawtypes/
         ppd
                                                    protected void configureJobProperties(TableDesc tableDesc, Map<String, String> jobPropert:
          ql.index
                                                        Properties tableProperties = tableDesc.getProperties();
          query
          util
                                         158
                                                        String inputFormatClassName =
                                         159
                                                                tableProperties.getProperty(PhoenixStorageHandlerConstants
            😊 🖫 PhoenixMetaHook
                                                                         .HBASE_INPUT_FORMAT_CLASS);
            😊 🦫 PhoenixRecordUpdater
            PhoenixRow
                                                        if (LOG.isDebugEnabled()) {
            C PhoenixRowKey
                                                            LOG.debug( 0 PhoenixStorageHandlerConstants.HBASE_INPUT_FORMAT_CLASS + " is " +
            😊 🖫 PhoenixSerDe
                                                                    inputFormatClassName);
            💿 🖫 PhoenixSerializer
            🔼 🖫 PhoenixStorageHandler
                                                        Class<?> inputFormatClass;
            💿 🖫 PrimarvKevData
  ▶ ■ test.
                                                            if (inputFormatClassName != null)
  i target
                                                                inputFormatClass = JavaUtils.loadClass(inputFormatClassName);
  🚛 phoenix-hive.iml
  m pom. xml
                                                                inputFormatClass = PhoenixInputFormat.class;
                                         173
phoenix-kafka
                                                        } catch (Exception e) {
phoenix-load-bal ancer
                                                            LOG.error(e.getMessage(), e);
                                         175
phoenix-parcel
                                         176
                                                             throw new RuntimeException(e);
nhoeni x-pherf
```

将错误行inputFormatClass = JavaUtils.loadClass(inputFormatClassName); 修改为:inputFormatClass = JavaUtils.getClassLoader().loadClass(inputFormatClassName); 修改源码后,同步到磁盘,继续打包。

## 后面没有错误了,截一张打包完成后的界面:

```
o@spark1234:~/projects/phoenix-/ - parcel ---
[INFO] --- maven-assembly-plugin:2.5.2:single trepare-p
[INFO] Reading assembly descriptor: src/build/parcel.xml
[WARNING] Cannot include project artifact: org.apache.phoenix:phoenix-parcel:pom:4.13.2-cdh5.7.0; it doesn't have an a
ssociated file or directory.
[INFO] Building tar: /home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-parcel/target/APACHE_PHOENIX-4.13.2-cdh5.7.0.
p0.0.parcel.tar
[INFO] -----
[INFO] Reactor Summary:
[INFO]
[INFO]
       Apache Phoenix ......
[INFO]
      Phoenix Core .....
                                                             SUCCESS
                                                                      [01:06 min]
                                                                      [ 2.866 s]
[ 7.740 s]
[01:11 min]
[INFO]
       Phoenix - Flume
[INFO]
      Phoenix -
                 Kafka
      [INFO]
                                                                       17.712 s]
[INFO]
      Phoenix Query Server
Phoenix - Pherf
                                                                        6.413 s]
INFO]
[INFO]
                                                                         5.990 s]
[INFO]
                                                                        11.535 s
       Phoenix -
                 Spark ....
                                                             SUCCESS
[INFO]
                                                                        38.538 s
      Phoenix - Hive .....
                                                             SUCCESS
[INFO]
      Phoenix Client .....
                                                             SUCCESS
                                                                      [01:04 min]
[INFO] Phoenix Server
                                                                        7.039 s
      Phoenix Assembly ......Phoenix - Tracing Web Application ......
[INFO]
                                                             SUCCESS
                                                                        54.865 s]
[INFO]
                                                             SUCCESS
                                                                        8.845 s]
                                                                         1.654 s]
      Phoenix Load Balancer .....
[INFO]
                                                             SUCCESS
      Phoenix Parcels for CDH .....
[INFO]
                                                             SUCCESS
[INFO]
[INFO]
      BUILD SUCCESS
[INFO]
       Total time: 06:30 min
[INFO]
      Finished at: 2018-02-20T08:04:33+08:00
[INFO]
      Final Memory: 149M/784M
[INFO] --
[hadoop@spark1234 phoenix-4.13-cdh5.7.0]$
```

# 打包完成后 ,在phoenix-assembly的target目录下面生成需要的压缩包:

```
[hadoop@spark1234 phoenix-assembly]$ cd target/
[hadoop@spark1234 target]$ ls
archive-tmp maven-shared-archive-resources phoenix-4.13.2-cdh5.7.0-source.tar.gz phoenix-4.13.2-cdh5.7.0.tar.gz
[hadoop@spark1234 target]$
[hadoop@spark1234 target]$
```

# 

#### 定位到源码:

/home/hadoop/projects/phoenix-4.13-cdh5.7.0/phoenix-

core/src/main/java/org/apache/phoenix/query/ConnectionQueryServicesImpl.java

```
QueryServicesOptions.DEFAULT_TRANSACTIONS_ENABLED);
this.connection = HBaseFactoryProvider.getHConnectionFactory().createConnection(this.config);
GLOBAL HCONNECTIONS_COUNTER.increment();
logger.info("HConnection established. Stacktrace for informational purposes: " + connection + " " + LogUtil.getCallerStackTrace());
// only initialize the tx service client if needed and if we succeeded in getting a connection
// to HBase
if (transactionsEnabled) {
    initTxServiceClient();
```