

1. 执行 `select * from travelrecord`，分析Debug日志，说明整个执行逻辑，包括连接获取，连接同步信息，数据合并，数据返回，连接释放。
2. 新增一个分片表 `T_VOTE (ID,PROVINCE)`,`PROVINCE`用hash分片，并用`reload`命令方式重载生效，截图和文字说明整个过程。
3. MySQL Server里Server端字符集UTF8情况下，当客户端字符集配置为latin 与UTF8的情况下，，通过MySQL客户端登录Mycat，执行select操作，通过日志分析，看看MyCAT的执行过程有哪些差别。

1. 执行 `select * from travelrecord`，分析Debug日志，说明整个执行逻辑，包括连接获取，连接同步信息，数据合并，数据返回，连接释放。

修改schema.xml的配置信息

```
1. <schema name="TESTDB" checkSQLschema="false" sqlMaxLimit="100">
2.     <table name="travelrecord" dataNode="dn1,dn2" rule="auto-sharding-long" />
3.     .....
4. </schema>
5. <dataNode name="dn1" dataHost="mysql1" database="db1" />
6. <dataNode name="dn2" dataHost="mysql2" database="db2" />
7. <dataHost name="mysql1" maxCon="1000" minCon="10" balance="1"
8.     writeType="0" dbType="mysql" dbDriver="native" switchType="2" slaveThreshold
   ="100">
9.     <heartbeat>select user()</heartbeat>
10.    <writeHost host="hostM1" url="192.168.123.151:3306" user="root"
11.        password="123456">
12.    </writeHost>
13. </dataHost>
14. <dataHost name="mysql2" maxCon="1000" minCon="10" balance="1"
15.     writeType="0" dbType="mysql" dbDriver="native" switchType="2" slaveThreshold
   ="100">
16.     <heartbeat>select user()</heartbeat>
17.    <writeHost host="hostM1" url="192.168.123.152:3306" user="root"
18.        password="123456">
19.    </writeHost>
20. </dataHost>
```

创建表，插入数据

```
1. # mysql -utest -ptest -h127.0.0.1 -P8066 -DTESTDB
2. MySQL [TESTDB]> create table travelrecord (id bigint not null primary key,user_id varc
   har(100),traveldate DATE, fee decimal,days int);
3. MySQL [TESTDB]> insert into travelrecord (id,user_id,traveldate,fee,days) values(1,'wa
   ng','2014-01-05',510.5,3);
4. MySQL [TESTDB]> insert into travelrecord (id,user_id,traveldate,fee,days) values(70000
   01,'wang','2014-01-05',510.5,3);
```

执行`select * from travelrecord`，查看DEBUG信息，可以看到sql首次执行没有通过缓存，直接分配到

dn1, dn2上同时执行。

执行多点查询(mutinode query)然后进行数据合并(merge)。

```
1. 03/04 22:20:41.792 DEBUG [$_NIOREACTOR-0-RW] (ServerQueryHandler.java:56) -ServerConn
   ection [id=1, schema=TESTDB, host=192.168.123.150, user=test,txIsolation=3, autocommit
   =true, schema=TESTDB]select * from travelrecord
2. 03/04 22:20:41.795 DEBUG [$_NIOREACTOR-0-RW] (EnchachePool.java:76) -SQLRouteCache m
   iss cache ,key:TESTDBselect * from travelrecord
3. 03/04 22:20:41.860 DEBUG [$_NIOREACTOR-0-RW] (EnchachePool.java:59) -SQLRouteCache ad
   d cache ,key:TESTDBselect * from travelrecord value:select * from travelrecord, route=
   {
4.     1 -> dn1{SELECT *
5.     FROM travelrecord
6.     LIMIT 100}
7.     2 -> dn2{SELECT *
8.     FROM travelrecord
9.     LIMIT 100}
10.  }
11. 03/04 22:20:41.860 DEBUG [$_NIOREACTOR-0-RW] (NonBlockingSession.java:113) -ServerCon
   nection [id=1, schema=TESTDB, host=192.168.123.150, user=test,txIsolation=3, autocommi
   t=true, schema=TESTDB]select * from travelrecord, route={
12.     1 -> dn1{SELECT *
13.     FROM travelrecord
14.     LIMIT 100}
15.     2 -> dn2{SELECT *
16.     FROM travelrecord
17.     LIMIT 100}
18.  } rrs
19. 03/04 22:20:41.860 DEBUG [$_NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:82) -execute
   mutinode query select * from travelrecord
20. 03/04 22:20:41.862 DEBUG [$_NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:97) -has dat
   a merge logic
21. 03/04 22:20:41.863 DEBUG [$_NIOREACTOR-0-RW] (PhysicalDBPool.java:452) -select read s
   ource hostM1 for dataHost:mysql1
22. 03/04 22:20:41.863 DEBUG [$_NIOREACTOR-0-RW] (PhysicalDBPool.java:452) -select read s
   ource hostM1 for dataHost:mysql2
23. 03/04 22:20:41.863 DEBUG [$_NIOREACTOR-0-RW] (MySQLConnection.java:445) -con need syn
   ,total syn cmd 1 commands SET SESSION TRANSACTION ISOLATION LEVEL REPEATABLE READ;sch
   ema change:false con:MySQLConnection [id=16, lastTime=1457101241863, user=root, schema
   =db2, old shema=db2, borrowed=true, fromSlaveDB=false, threadId=13, charset=utf8, txIs
   olation=0, autocommit=true, attachment=dn2{SELECT *
24.     FROM travelrecord
25.     LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@6382a3e
   c, host=192.168.123.152, port=3306, statusSync=null, writeQueue=0, modifiedSQLExecuted
   =false]
26. 03/04 22:20:41.865 DEBUG [$_NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:171) -receiv
   ed ok response ,executeResponse:false from MySQLConnection [id=16, lastTime=1457101241
   847, user=root, schema=db2, old shema=db2, borrowed=true, fromSlaveDB=false, threadId=
   13, charset=utf8, txIsolation=3, autocommit=true, attachment=dn2{SELECT *
27.     FROM travelrecord
28.     LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@6382a3e
   c, host=192.168.123.152, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
   n$StatusSync@5117e672, writeQueue=0, modifiedSQLExecuted=false]
29. 03/04 22:20:41.865 DEBUG [$_NIOREACTOR-1-RW] (DataMergeService.java:94) -field metada
   ta inf:[ID=ColMeta [colIndex=0, colType=8], DAYS=ColMeta [colIndex=4, colType=3], TRAV
   ELDATE=ColMeta [colIndex=2, colType=10], USER_ID=ColMeta [colIndex=1, colType=253], FE
   E=ColMeta [colIndex=3, colType=246]]
30. 03/04 22:20:41.869 DEBUG [$_NIOREACTOR-1-RW] (MultiNodeQueryHandler.java:241) -on row
```

```

    end reseponse MySqlConnection [id=3, lastTime=1457101241847, user=root, schema=db1, old shema=db1, borrowed=true, fromSlaveDB=false, threadId=11, charset=utf8, txIsolation=3, autocommit=true, attachment=dn1{SELECT *
31. FROM travelrecord
32. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@6382a3ec, host=192.168.123.151, port=3306, statusSync=null, writeQueue=0, modifiedSQLExecuted=false]
33. 03/04 22:20:41.869 DEBUG [$ _NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:241) -on row
    end reseponse MySqlConnection [id=16, lastTime=1457101241847, user=root, schema=db2, old shema=db2, borrowed=true, fromSlaveDB=false, threadId=13, charset=utf8, txIsolation=3, autocommit=true, attachment=dn2{SELECT *
34. FROM travelrecord
35. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@6382a3ec, host=192.168.123.152, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnection$StatusSync@5117e672, writeQueue=0, modifiedSQLExecuted=false]
36. 03/04 22:20:41.870 DEBUG [$ _NIOREACTOR-1-RW] (NonBlockingSession.java:229) -release connection MySqlConnection [id=3, lastTime=1457101241847, user=root, schema=db1, old shema=db1, borrowed=true, fromSlaveDB=false, threadId=11, charset=utf8, txIsolation=3, autocommit=true, attachment=dn1{SELECT *
37. FROM travelrecord
38. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@6382a3ec, host=192.168.123.151, port=3306, statusSync=null, writeQueue=0, modifiedSQLExecuted=false]
39. 03/04 22:20:41.879 DEBUG [$ _NIOREACTOR-1-RW] (PhysicalDatasource.java:403) -release channel MySqlConnection [id=3, lastTime=1457101241847, user=root, schema=db1, old shema=db1, borrowed=true, fromSlaveDB=false, threadId=11, charset=utf8, txIsolation=3, autocommit=true, attachment=null, respHandler=null, host=192.168.123.151, port=3306, statusSync=null, writeQueue=0, modifiedSQLExecuted=false]
40. 03/04 22:20:41.877 DEBUG [$ _NIOREACTOR-0-RW] (NonBlockingSession.java:229) -release connection MySqlConnection [id=16, lastTime=1457101241847, user=root, schema=db2, old shema=db2, borrowed=true, fromSlaveDB=false, threadId=13, charset=utf8, txIsolation=3, autocommit=true, attachment=dn2{SELECT *
41. FROM travelrecord
42. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@6382a3ec, host=192.168.123.152, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnection$StatusSync@5117e672, writeQueue=0, modifiedSQLExecuted=false]
43. 03/04 22:20:41.880 DEBUG [$ _NIOREACTOR-0-RW] (PhysicalDatasource.java:403) -release channel MySqlConnection [id=16, lastTime=1457101241847, user=root, schema=db2, old shema=db2, borrowed=true, fromSlaveDB=false, threadId=13, charset=utf8, txIsolation=3, autocommit=true, attachment=null, respHandler=null, host=192.168.123.152, port=3306, statusSync=null, writeQueue=0, modifiedSQLExecuted=false]
44. 03/04 22:20:41.881 DEBUG [BusinessExecutor1] (DataMergeService.java:296) -prepare mpp merge result for select * from travelrecord
45. 03/04 22:20:41.881 DEBUG [BusinessExecutor1] (MultiNodeQueryHandler.java:324) -last packet id:10

```

2. 新增一个分片表 T_VOTE (ID,PROVINCE),PROVINCE用hash分片，并用reload命令方式重载生效，截图和文字说明整个过程。

修改配置文件

```

1. # 修改rule.xml
2. <tableRule name="sharding-by-stringhash">
3.     <rule>

```

```

4.         <columns>province</columns>
5.         <algorithm>sharding-by-substring</algorithm>
6.     </rule>
7. </tableRule>
8. ....
9.     <function name="sharding-by-substring"
10.         class="org.opencloudb.route.function.PartitionDirectBySubString">
11.         <property name="count">2</property>
12.         <property name="length">512</property>
13.         <property name="hashSlice">0:2</property>
14.     </function>
15. # 修改schema.xml
16. <table name="t_vote" dataNode="dn1,dn2" rule="sharding-by-stringhash" />

```

连接Mycat，重新加载配置文件

```

1. # mysql -utest -ptest -hmycat-server1 -P9066
2. MySQL [(none)]> reload @@config;

```

查看日志信息， 首先先清空缓存池、sql路由缓存等，再启动ReloadConfig线程重新加载配置文件。

```

1. 03/05 23:20:09.259  DEBUG [$_NIOREACTOR-1-RW] (ManagerQueryHandler.java:65) -[thread=$_NIOREACTOR-1-RW,class=ManagerConnection,id=1,host=192.168.123.150,port=9066,schema=null]reload @@config
2. 03/05 23:20:09.323  INFO [BusinessExecutor3] (CacheService.java:187) -clear all cache pool
3. 03/05 23:20:09.323  INFO [BusinessExecutor3] (EnchachePool.java:85) -clear cache SQLRouteCache
4. 03/05 23:20:09.327  INFO [BusinessExecutor3] (DefaultLayedCachePool.java:100) -clear cache
5. 03/05 23:20:09.327  INFO [BusinessExecutor3] (EnchachePool.java:85) -clear cache TableID2DataNodeCache.TESTDB_ORDERS
6. 03/05 23:20:09.328  INFO [BusinessExecutor3] (EnchachePool.java:85) -clear cache ER_SQL2PARENTID
7. 03/05 23:20:09.330  WARN [BusinessExecutor2] (ReloadConfig.java:168) -send ok package to client [thread=BusinessExecutor2,class=ManagerConnection,id=1,host=192.168.123.150,port=9066,schema=null]

```

3. MySQL Server里Server端字符集UTF8情况下，当客户端字符集配置为latin 与UTF8的情况下，，通过MySQL客户端登录Mycat，执行select操作，通过日志分析，看看MyCAT的执行过程有哪些差别。

修改mysql客户端的字符集

```

1. # vim /etc/my.cnf
2. [client]
3. default-character-set=latin1

```

连接Mycat，并查看当前连接的字符集

```

1. # mysql -utest -ptest -hmycat-server1 -P8066 -DTESTDB

```

```
2. MySQL [TESTDB]> SHOW VARIABLES LIKE 'character%';
```

执行select * from travelrecord, 查看日志信息, 并跟utf8字符集的日志作对比

可见Mycat连接dataNode时, 都使用当前mysql客户端设定好的字符集进行连接, 获取数据和关闭连接的操作。

```
1. 03/05 23:46:02.324 DEBUG [$_NIOREACTOR-1-RW] (MultiNodeQueryHandler.java:82) -execute
   mutinode query select * from travelrecord
2. 03/05 23:46:02.325 DEBUG [$_NIOREACTOR-1-RW] (MultiNodeQueryHandler.java:97) -has dat
   a merge logic
3. 03/05 23:46:02.326 DEBUG [$_NIOREACTOR-1-RW] (PhysicalDBPool.java:452) -select read s
   ource hostM1 for dataHost:mysql1
4. 03/05 23:46:02.326 DEBUG [$_NIOREACTOR-1-RW] (MySQLConnection.java:445) -con need syn
   ,total syn cmd 1 commands SET SESSION TRANSACTION ISOLATION LEVEL REPEATABLE READ;sch
   ema change:false con:MySQLConnection [id=2, lastTime=1457192762326, user=root, schema=
   db1, old shema=db1, borrowed=true, fromSlaveDB=false, threadId=46, charset=utf8, txIso
   lation=0, autocommit=true, attachment=dn1{SELECT *
5. FROM travelrecord
6. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@3545392
   4, host=192.168.123.151, port=3306, statusSync=null, writeQueue=0, modifiedSQLExecuted
   =false]
7. 03/05 23:46:02.326 DEBUG [$_NIOREACTOR-1-RW] (PhysicalDBPool.java:452) -select read s
   ource hostM1 for dataHost:mysql2
8. 03/05 23:46:02.327 DEBUG [$_NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:171) -receiv
   ed ok response ,executeResponse:false from MySQLConnection [id=2, lastTime=14571927623
   24, user=root, schema=db1, old shema=db1, borrowed=true, fromSlaveDB=false, threadId=4
   6, charset=utf8, txIsolation=3, autocommit=true, attachment=dn1{SELECT *
9. FROM travelrecord
10. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@3545392
   4, host=192.168.123.151, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
   n$StatusSync@53aa85ce, writeQueue=0, modifiedSQLExecuted=false]
11. 03/05 23:46:02.328 DEBUG [$_NIOREACTOR-1-RW] (DataMergeService.java:94) -field metada
   ta inf:[ID=ColMeta [colIndex=0, colType=8], DAYS=ColMeta [colIndex=4, colType=3], TRAV
   ELDATE=ColMeta [colIndex=2, colType=10], USER_ID=ColMeta [colIndex=1, colType=253], FE
   E=ColMeta [colIndex=3, colType=246]]
12. 03/05 23:46:02.328 DEBUG [$_NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:241) -on row
   end reseponse MySQLConnection [id=2, lastTime=1457192762324, user=root, schema=db1, o
   ld shema=db1, borrowed=true, fromSlaveDB=false, threadId=46, charset=utf8, txIsolation
   =3, autocommit=true, attachment=dn1{SELECT *
13. FROM travelrecord
14. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@3545392
   4, host=192.168.123.151, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
   n$StatusSync@53aa85ce, writeQueue=0, modifiedSQLExecuted=false]
15. 03/05 23:46:02.329 DEBUG [$_NIOREACTOR-0-RW] (NonBlockingSession.java:229) -release c
   onnection MySQLConnection [id=2, lastTime=1457192762324, user=root, schema=db1, old sh
   ema=db1, borrowed=true, fromSlaveDB=false, threadId=46, charset=utf8, txIsolation=3, a
   utocommit=true, attachment=dn1{SELECT *
16. FROM travelrecord
17. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@3545392
   4, host=192.168.123.151, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
   n$StatusSync@53aa85ce, writeQueue=0, modifiedSQLExecuted=false]
18. 03/05 23:46:02.329 DEBUG [$_NIOREACTOR-0-RW] (PhysicalDatasource.java:403) -release c
   hannel MySQLConnection [id=2, lastTime=1457192762324, user=root, schema=db1, old shema
   =db1, borrowed=true, fromSlaveDB=false, threadId=46, charset=utf8, txIsolation=3, auto
   commit=true, attachment=null, respHandler=null, host=192.168.123.151, port=3306, statu
   sSync=null, writeQueue=0, modifiedSQLExecuted=false]
19. 03/05 23:46:02.329 DEBUG [$_NIOREACTOR-1-RW] (MultiNodeQueryHandler.java:241) -on row
```



```

    end response MySQLConnection [id=15, lastTime=1457192762324, user=root, schema=db2,
old shema=db2, borrowed=true, fromSlaveDB=false, threadId=43, charset=utf8, txIsolation=3, autocommit=true, attachment=dn2{SELECT *
20. FROM travelrecord
21. LIMIT 100}, respHandler=org.opencldb.mysql.nio.handler.MultiNodeQueryHandler@3545392
4, host=192.168.123.152, port=3306, statusSync=null, writeQueue=0, modifiedSQLExecuted=false]
22. 03/05 23:46:02.330 DEBUG [$_NIOREACTOR-1-RW] (NonBlockingSession.java:229) -release c
onnection MySQLConnection [id=15, lastTime=1457192762324, user=root, schema=db2, old s
hema=db2, borrowed=true, fromSlaveDB=false, threadId=43, charset=utf8, txIsolation=3,
autocommit=true, attachment=dn2{SELECT *
23. FROM travelrecord
24. LIMIT 100}, respHandler=org.opencldb.mysql.nio.handler.MultiNodeQueryHandler@3545392
4, host=192.168.123.152, port=3306, statusSync=null, writeQueue=0, modifiedSQLExecuted=false]
25. 03/05 23:46:02.330 DEBUG [$_NIOREACTOR-1-RW] (PhysicalDatasource.java:403) -release c
hannel MySQLConnection [id=15, lastTime=1457192762324, user=root, schema=db2, old shem
a=db2, borrowed=true, fromSlaveDB=false, threadId=43, charset=utf8, txIsolation=3, aut
ocommit=true, attachment=null, respHandler=null, host=192.168.123.152, port=3306, stat
usSync=null, writeQueue=0, modifiedSQLExecuted=false]
26. 03/05 23:46:02.331 DEBUG [BusinessExecutor1] (DataMergeService.java:296) -prepare mpp
merge result for select * from travelrecord
27. 03/05 23:46:02.331 DEBUG [BusinessExecutor1] (MultiNodeQueryHandler.java:324) -last p
acket id:10

```

```

1. 03/05 23:55:27.661 DEBUG [$_NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:82) -execute
mutinode query select * from travelrecord
2. 03/05 23:55:27.663 DEBUG [$_NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:97) -has dat
a merge logic
3. 03/05 23:55:27.663 DEBUG [$_NIOREACTOR-0-RW] (PhysicalDBPool.java:452) -select read s
ource hostM1 for dataHost:mysql1
4. 03/05 23:55:27.664 DEBUG [$_NIOREACTOR-0-RW] (MySQLConnection.java:445) -con need syn
, total syn cmd 2 commands SET names latin1;SET SESSION TRANSACTION ISOLATION LEVEL RE
PEATABLE READ;schema change:false con:MySQLConnection [id=2, lastTime=1457193327663, u
ser=root, schema=db1, old shema=db1, borrowed=true, fromSlaveDB=false, threadId=63, ch
arset=latin1, txIsolation=0, autocommit=true, attachment=dn1{SELECT *
5. FROM travelrecord
6. LIMIT 100}, respHandler=org.opencldb.mysql.nio.handler.MultiNodeQueryHandler@33c5293
d, host=192.168.123.151, port=3306, statusSync=null, writeQueue=0, modifiedSQLExecuted=false]
7. 03/05 23:55:27.664 DEBUG [$_NIOREACTOR-0-RW] (PhysicalDBPool.java:452) -select read s
ource hostM1 for dataHost:mysql2
8. 03/05 23:55:27.664 DEBUG [$_NIOREACTOR-0-RW] (MySQLConnection.java:445) -con need syn
, total syn cmd 2 commands SET names latin1;SET SESSION TRANSACTION ISOLATION LEVEL RE
PEATABLE READ;schema change:false con:MySQLConnection [id=19, lastTime=1457193327664,
user=root, schema=db2, old shema=db2, borrowed=true, fromSlaveDB=false, threadId=52, c
harset=latin1, txIsolation=0, autocommit=true, attachment=dn2{SELECT *
9. FROM travelrecord
10. LIMIT 100}, respHandler=org.opencldb.mysql.nio.handler.MultiNodeQueryHandler@33c5293
d, host=192.168.123.152, port=3306, statusSync=null, writeQueue=0, modifiedSQLExecuted=false]
11. 03/05 23:55:27.665 DEBUG [$_NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:171) -receiv
ed ok response ,executeResponse:false from MySQLConnection [id=2, lastTime=14571933276
55, user=root, schema=db1, old shema=db1, borrowed=true, fromSlaveDB=false, threadId=6
3, charset=latin1, txIsolation=0, autocommit=true, attachment=dn1{SELECT *
12. FROM travelrecord

```

```

13. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@33c5293
d, host=192.168.123.151, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
n$StatusSync@55167e58, writeQueue=0, modifiedSQLExecuted=false]
14. 03/05 23:55:27.665 DEBUG [$_NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:171) -receiv
ed ok response ,executeResponse:false from MySQLConnection [id=2, lastTime=14571933276
55, user=root, schema=db1, old shema=db1, borrowed=true, fromSlaveDB=false, threadId=6
3, charset=latin1, txIsolation=3, autocommit=true, attachment=dn1{SELECT *
15. FROM travelrecord
16. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@33c5293
d, host=192.168.123.151, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
n$StatusSync@55167e58, writeQueue=0, modifiedSQLExecuted=false]
17. 03/05 23:55:27.666 DEBUG [$_NIOREACTOR-1-RW] (MultiNodeQueryHandler.java:171) -receiv
ed ok response ,executeResponse:false from MySQLConnection [id=19, lastTime=1457193327
655, user=root, schema=db2, old shema=db2, borrowed=true, fromSlaveDB=false, threadId=
52, charset=latin1, txIsolation=0, autocommit=true, attachment=dn2{SELECT *
18. FROM travelrecord
19. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@33c5293
d, host=192.168.123.152, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
n$StatusSync@9a07f95, writeQueue=0, modifiedSQLExecuted=false]
20. 03/05 23:55:27.667 DEBUG [$_NIOREACTOR-1-RW] (MultiNodeQueryHandler.java:171) -receiv
ed ok response ,executeResponse:false from MySQLConnection [id=19, lastTime=1457193327
655, user=root, schema=db2, old shema=db2, borrowed=true, fromSlaveDB=false, threadId=
52, charset=latin1, txIsolation=3, autocommit=true, attachment=dn2{SELECT *
21. FROM travelrecord
22. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@33c5293
d, host=192.168.123.152, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
n$StatusSync@9a07f95, writeQueue=0, modifiedSQLExecuted=false]
23. 03/05 23:55:27.668 DEBUG [$_NIOREACTOR-0-RW] (DataMergeService.java:94) -field metada
ta inf:[ID=ColMeta [colIndex=0, colType=8], DAYS=ColMeta [colIndex=4, colType=3], TRAV
ELDATE=ColMeta [colIndex=2, colType=10], USER_ID=ColMeta [colIndex=1, colType=253], FE
E=ColMeta [colIndex=3, colType=246]]
24. 03/05 23:55:27.668 DEBUG [$_NIOREACTOR-1-RW] (MultiNodeQueryHandler.java:241) -on row
end reseponse MySQLConnection [id=19, lastTime=1457193327655, user=root, schema=db2,
old shema=db2, borrowed=true, fromSlaveDB=false, threadId=52, charset=latin1, txIsolat
ion=3, autocommit=true, attachment=dn2{SELECT *
25. FROM travelrecord
26. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@33c5293
d, host=192.168.123.152, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
n$StatusSync@9a07f95, writeQueue=0, modifiedSQLExecuted=false]
27. 03/05 23:55:27.669 DEBUG [$_NIOREACTOR-1-RW] (NonBlockingSession.java:229) -release c
onnection MySQLConnection [id=19, lastTime=1457193327655, user=root, schema=db2, old s
hema=db2, borrowed=true, fromSlaveDB=false, threadId=52, charset=latin1, txIsolation=3
, autocommit=true, attachment=dn2{SELECT *
28. FROM travelrecord
29. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@33c5293
d, host=192.168.123.152, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
n$StatusSync@9a07f95, writeQueue=0, modifiedSQLExecuted=false]
30. 03/05 23:55:27.669 DEBUG [$_NIOREACTOR-1-RW] (PhysicalDatasource.java:403) -release c
hannel MySQLConnection [id=19, lastTime=1457193327655, user=root, schema=db2, old shem
a=db2, borrowed=true, fromSlaveDB=false, threadId=52, charset=latin1, txIsolation=3, a
utocommit=true, attachment=null, respHandler=null, host=192.168.123.152, port=3306, st
atusSync=null, writeQueue=0, modifiedSQLExecuted=false]
31. 03/05 23:55:27.669 DEBUG [$_NIOREACTOR-0-RW] (MultiNodeQueryHandler.java:241) -on row
end reseponse MySQLConnection [id=2, lastTime=1457193327655, user=root, schema=db1, o
ld shema=db1, borrowed=true, fromSlaveDB=false, threadId=63, charset=latin1, txIsolati
on=3, autocommit=true, attachment=dn1{SELECT *
32. FROM travelrecord
33. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@33c5293

```

```
d, host=192.168.123.151, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
n$StatusSync@55167e58, writeQueue=0, modifiedSQLExecuted=false]
34. 03/05 23:55:27.670 DEBUG [$_NIOREACTOR-0-RW] (NonBlockingSession.java:229) -release c
onnection MySQLConnection [id=2, lastTime=1457193327655, user=root, schema=db1, old sh
ema=db1, borrowed=true, fromSlaveDB=false, threadId=63, charset=latin1, txIsolation=3,
autocommit=true, attachment=dn1{SELECT *
35. FROM travelrecord
36. LIMIT 100}, respHandler=org.opencloudb.mysql.nio.handler.MultiNodeQueryHandler@33c5293
d, host=192.168.123.151, port=3306, statusSync=org.opencloudb.mysql.nio.MySQLConnectio
n$StatusSync@55167e58, writeQueue=0, modifiedSQLExecuted=false]
37. 03/05 23:55:27.670 DEBUG [$_NIOREACTOR-0-RW] (PhysicalDatasource.java:403) -release c
hannel MySQLConnection [id=2, lastTime=1457193327655, user=root, schema=db1, old shema
=db1, borrowed=true, fromSlaveDB=false, threadId=63, charset=latin1, txIsolation=3, au
tocommit=true, attachment=null, respHandler=null, host=192.168.123.151, port=3306, sta
tusSync=null, writeQueue=0, modifiedSQLExecuted=false]
38. 03/05 23:55:27.670 DEBUG [BusinessExecutor0] (DataMergeService.java:296) -prepare mpp
merge result for select * from travelrecord
39. 03/05 23:55:27.670 DEBUG [BusinessExecutor0] (MultiNodeQueryHandler.java:324) -last p
acket id:10
```