java 下执行mysql 批量插入的几种方法及用时

java 下执行mysql 批量插入的几种方法及用时,1000次插入方法的比较。

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方法1:
Java code
复制代码 代码如下:
conn = DriverManager.getConnection(JDBC_URL, JDBC_USER, JDBC_PASS);
    pstmt = conn
         .prepareStatement("insert into loadtest (id, data) values (?, ?)");
    for (int i = 1; i \le COUNT; i++) {
       pstmt.clearParameters();
       pstmt.setInt(1, i);
       pstmt.setString(2, DATA);
       pstmt.execute();
MyISAM: 246.6秒、InnoDB: 360.2秒
方法2: 使用事务,不自动commit
Java code
复制代码 代码如下:
conn = DriverManager.getConnection(JDBC URL, JDBC USER, JDBC PASS);
    conn.setAutoCommit(false);
    pstmt = conn
         .prepareStatement("insert into loadtest (id, data) values (?, ?)");
    for (int i = 1; i \le COUNT; i++) {
       pstmt.clearParameters();
       pstmt.setInt(1, i);
       pstmt.setString(2, DATA);
       pstmt.execute();
       if (i % COMMIT_SIZE == 0) {
         conn.commit();
       }
    conn.commit();
InnoDB: 31.5秒
方法3: executeBatch
Java code
复制代码 代码如下:
conn = DriverManager.getConnection(JDBC URL
         + "?rewriteBatchedStatements=true", JDBC_USER, JDBC_PASS);
    conn.setAutoCommit(false);
    pstmt = conn
         .prepareStatement("insert into loadtest (id, data) values (?, ?)");
    for (int i = 1; i \le COUNT; i += BATCH\_SIZE) {
       pstmt.clearBatch();
       for (int j = 0; j < BATCH_SIZE; j++) {
         pstmt.setInt(1, i + j);
         pstmt.setString(2, DATA);
         pstmt.addBatch();
       pstmt.executeBatch();
       if ((i + BATCH SIZE - 1) % COMMIT SIZE == 0) {
         conn.commit();
    conn.commit();
```

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InnoDB: 5.2秒
上面的使用时必须
1) rewriteBatchedStatements=true
2) useServerPrepStmts=true
方法4:先LOAD再COMMIT
Java code
复制代码 代码如下:
conn = DriverManager.getConnection(JDBC URL, JDBC USER, JDBC PASS);
    conn.setAutoCommit(false);
    pstmt = conn.prepareStatement("load data local infile " "
         + "into table loadtest fields terminated by ','");
    StringBuilder sb = new StringBuilder();
    for (int i = 1; i \le COUNT; i++) {
       sb.append(i + "," + DATA + "\n");
       if (i % COMMIT_SIZE == 0) {
         InputStream is = new ByteArrayInputStream(sb.toString()
              .getBytes());
         ((com.mysql.jdbc.Statement) pstmt)
              .setLocalInfileInputStream(is);
         pstmt.execute();
         conn.commit();
         sb.setLength(0);
       }
    InputStream is = new ByteArrayInputStream(sb.toString().getBytes());
    ((com.mysgl.jdbc.Statement) pstmt).setLocalInfileInputStream(is);
    pstmt.execute();
    conn.commit();
```