

Re: How to get the data from a huge table efficiently?

Source: <http://coding.derkeiler.com/Archive/Java/comp.lang.java.databases/2006-06/msg00021.html>

- *From:* "kuassi.mensah@xxxxxxxxxx" <kuassi.mensah@xxxxxxxxxx>
 - *Date:* 4 Jun 2006 18:34:25 -0700
-

As others have mentioned, why do you want to retrieve/ship millions rows on the client-side, just process the data within the database, and only display/ship the results on the client-side. See my blog <http://db360.blogspot.com/> on user-defined database functionality using Java (if Oracle, DB2, Sybase, Postgres), PL/SQL (if Oracle), or other proprietary languages or de facto standard.

Kuassi

Jet Mah wrote:

Hi,
I want to get the data one by one from a huge table (about 3 thousand rows) efficiently, this is my way as below:

```
//-----  
// SQL Server 2000 Database  
  
int queryEachTime = 1000;  
int queryFrequency = 5000;  
  
Connection conn = null;  
try {  
  
while(true) {  
  
if(conn == null){  
// "dbPool" is a connection pool  
conn = dbPool.getConnection();  
}  
  
CallableStatement qstmt = conn.prepareCall(sql,  
ResultSet.TYPE_SCROLL_SENSITIVE, ResultSet.CONCUR_UPDATABLE);  
//qstmt.setMaxRows(queryEachTime);  
//qstmt.setFetchSize(queryEachTime);  
String sql = "SELECT TOP " + queryEachTime + " id, name, read " +  
"FROM member " +  
"WHERE age > 20";
```

Re: How to get the data from a huge table efficiently?

```
Statement qstmt =
conn.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,
ResultSet.CONCUR_UPDATABLE);
ResultSet rs = qstmt.executeQuery(sql);
// If have new data
boolean haveData = false;
// put the data into memory
Vector v = new Vector();
while (rs.next()) {
RequestBean rb = new RequestBean();
// get data
rb.setId(rs.getBigDecimal("id"));
rb.setName(rs.getBoolean("name"));

// >0...X-
v.addElement(rb);

// update row
rs.updateInt("read_stat", 1);
rs.updateRow();

haveData = true;
}
// close
rs.close();
rs = null;
qstmt.close();
qstmt = null;
// release connection
conn.close();
conn = null;

for(int i = 0; i < v.size(); i++){
RequestBean rb = (RequestBean)v.get(i);
// do something
}
v.clear();

/* Have finished! */
if(!haveData) {
if(LOG.isDebugEnabled())
LOG.debug("Finished!");
}

/* Frequency */
try {
Thread.sleep(queryFrequency);
} catch (InterruptedException e) {
}

}
```

Re: How to get the data from a huge table efficiently?

```
    } catch (ProxoolException e) {  
LOG.error("",e);  
    } catch (SQLException e) {  
LOG.error("",e);  
    } finally {  
if (conn != null) {  
    try {  
conn.close();  
    } catch (SQLException e) {  
    }  
conn = null;  
    }  
    }  
//-----
```

But when the application run for a while, It will get the OutOfMemoryException. Any ideas? Thanks.