

Lecture 17_Clobs

Read Clob Demo

The screenshot shows the Eclipse IDE interface. The main editor displays the `ReadClobDemo.java` file, which contains the following code:

```
10 import java.io.File;
11
12 /**
13  * @author www.luv2code.com
14  *
15  */
16
17 public class ReadClobDemo {
18
19     public static void main(String[] args) throws Exception {
20
21         Connection myConn = null;
22         Statement myStmt = null;
23         ResultSet myRs = null;
24
25         Reader input = null;
26         FileWriter output = null;
27
28         try {
29             // 1. Get a connection to database
30             myConn = DriverManager.getConnection(
31                 "jdbc:mysql://localhost:3306/db_zabala", "student", "student");
32
33             // 2. Execute statement
34             myStmt = myConn.createStatement();
35             String sql = "select resume from employees where email='john.doe@foo.com'";
36             myRs = myStmt.executeQuery(sql);
37
38             // 3. Set up a handle to the file
39             File file = new File("C:\\Users\\ADMIN\\OneDrive\\Documents\\java projects\\Database\\Data Structures\\jdbc-source-code-v2\\jdbc-mysql-course-source-code-v2\\lecture-17-clobs\\jdbc-clob\\resume_from_db.txt");
40             output = new FileWriter(file);
41
42             while (myRs.next()) {
43                 String resume = myRs.getString("resume");
44                 output.write(resume);
45             }
46
47             output.close();
48
49             // 4. Clean up
50             myRs.close();
51             myStmt.close();
52             myConn.close();
53
54         } catch (SQLException e) {
55             e.printStackTrace();
56         }
57     }
58 }
```

The console output shows the execution of the program:

```
<terminated> ReadClobDemo [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (Nov 15, 2024, 9:02:30 AM – 9:02:32 AM) [pid: 2640]
Reading resume from database...
select resume from employees where email='john.doe@foo.com'

Saved to file: C:\Users\ADMIN\OneDrive\Documents\java projects\Database\Data Structures\jdbc-source-code-v2\jdbc-mysql-course-source-code-v2\lecture-17-clobs\jdbc-clob\resume_from_db.txt

Completed successfully!
```

Write Clob Demo

The screenshot shows the Eclipse IDE interface. The main editor displays the `WriteClobDemo.java` file, which contains the following code:

```
1 import java.io.File;
2
3 /**
4  * @author www.luv2code.com
5  */
6 public class WriteClobDemo {
7
8     public static void main(String[] args) throws Exception {
9
10         Connection myConn = null;
11         PreparedStatement myStmt = null;
12
13         FileReader input = null;
14
15         try {
16             // 1. Get a connection to database
17             myConn = DriverManager.getConnection(
18                 "jdbc:mysql://localhost:3306/db_zabala", "student", "student");
19
20             // 2. Prepare statement
21             String sql = "update employees set resume=? where email='john.doe@foo.com'";
22             myStmt = myConn.prepareStatement(sql);
23
24             // 3. Set parameter for resume file name
25             File theFile = new File("sample_resume.txt");
26             input = new FileReader(theFile);
27             myStmt.setCharacterStream(1, input);
28         }
29     }
30 }
```

The left sidebar shows the Project Explorer with the following structure:

- src
 - (default package)
 - ReadBlobDemo.java
 - WriteBlobDemo.java
- Referenced Libraries
 - JRE System Library [jdk-21]
- lib
 - sql
 - table-setup.sql
 - README.TXT
 - sample_resume.pdf
- jdbc-lecture-17-clobs (in jdbc-clob)
 - src
 - (default package)
 - ReadClobDemo.java
 - WriteClobDemo.java
 - Referenced Libraries
 - JRE System Library [jdk-21]
 - lib
 - sql
 - README.TXT
 - resume_from_db.txt
 - sample_resume.txt

The bottom console shows the execution output:

```
<terminated> WriteClobDemo [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (Nov 15, 2024, 9:04:29 AM - 9:04:31 AM) [pid: 14452]
Reading input file: C:\Users\ADMIN\OneDrive\Documents\java projects\Database\Data Structures\jdbc-source-code-v2\jdbc-mysql-course-source-code-v2\lecture-17-clobs\jdbc-clob\sample_resume.txt

Storing resume in database: sample_resume.txt
update employees set resume=? where email='john.doe@foo.com'

Completed successfully!
```

The status bar at the bottom indicates the current state: Writable, Smart Insert, and the time 27:59:589.