

LECTURE 6, UPDATING DATA

The screenshot shows the Eclipse IDE interface. The Project Explorer on the left displays the project structure: `com.java.dsa` containing `InsertingData.java`, `package-info.java`, `SettingUpDevEnvironment.java`, `SubmittingSQLQuery.java`, and `UpdatingData.java`. The main editor window shows the code for `UpdatingData.java`.

```
1 package com.java.dsa;
2
3
4 import java.sql.Connection;
5 import java.sql.DriverManager;
6 import java.sql.SQLException;
7 import java.sql.Statement;
8 import java.sql.ResultSet;
9
10 public class UpdatingData {
11
12     private static final String url = "jdbc:mysql://localhost:3306/db_zabala";
13     private static final String user = "root";
14     private static final String password = "";
15     private static final String queryUpdate =
16         "UPDATE employees SET email = 'john.doe@luv2code.com' WHERE id = 1";
17     private static final int resultSet = 0;
18     private static final String queryOutput = "SELECT * FROM employees";
19
20     public static void main(String[] args) {
21
22         try {
23             Connection connection = DriverManager.getConnection(url, user, password);
24             Statement statement = connection.createStatement();
25             setResultSet(statement.executeUpdate(queryUpdate));
26             ResultSet resultSet = statement.executeQuery(queryOutput);
27
28             // Print the results of the query
29         } catch (SQLException e) {
30             e.printStackTrace();
31         }
32     }
33 }
```

The Console window at the bottom shows the output of the program, listing 13 employees with their IDs, names, emails, departments, and salaries:

```
<terminated> UpdatingData [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (Oct 11, 2024, 8:59:47 AM – 8:59:49 AM) [pid: 6936]
id: 2, Name: Mary Public, Email: mary.public@foo.com, Department: Engineering, Salary: 75000.0
id: 3, Name: Susan Queue, Email: susan.queue@foo.com, Department: Legal, Salary: 130000.0
id: 4, Name: David Williams, Email: david.williams@foo.com, Department: HR, Salary: 120000.0
id: 5, Name: Lisa Johnson, Email: lisa.johnson@foo.com, Department: Engineering, Salary: 50000.0
id: 6, Name: Paul Smith, Email: paul.smith@foo.com, Department: Legal, Salary: 100000.0
id: 7, Name: Carl Adams, Email: carl.adams@foo.com, Department: HR, Salary: 50000.0
id: 8, Name: Bill Brown, Email: bill.brown@foo.com, Department: Engineering, Salary: 50000.0
id: 9, Name: Susan Thomas, Email: susan.thomas@foo.com, Department: Legal, Salary: 80000.0
id: 10, Name: John Davis, Email: john.davis@foo.com, Department: HR, Salary: 45000.0
id: 11, Name: Mary Fowler, Email: mary.fowler@foo.com, Department: Engineering, Salary: 65000.0
id: 12, Name: David Waters, Email: david.waters@foo.com, Department: Legal, Salary: 90000.0
id: 13, Name: Eric Wright, Email: eric.wright@foo.com, Department: HR, Salary: 33000.0
```

The status bar at the bottom indicates the file is Writable, Smart Insert is active, and the cursor is at line 12, column 77, row 281.

LECTURE 7, DELETING DATA

The screenshot displays the Eclipse IDE interface. The Project Explorer on the left shows the project structure: `com.java.dsa` containing `DeletingData.java`, `InsertingData.java`, `package-info.java`, `SettingUpDevEnvironment.java`, `SubmittingSQLQuery.java`, `UpdatingData.java`, and `module-info.java`.

The main editor shows the `DeletingData.java` file with the following code:

```
1 package com.java.dsa;
2
3
4 import java.sql.Connection;
5 import java.sql.DriverManager;
6 import java.sql.SQLException;
7 import java.sql.Statement;
8 import java.sql.ResultSet;
9
10 public class DeletingData {
11
12     private static final String url = "jdbc:mysql://localhost:3306/db_zabala";
13     private static final String user = "root";
14     private static final String password = "";
15     private static final String queryUpdate =
16         "DELETE FROM employees WHERE id = 17";
17     private static int resultSet;
18     private static final String queryOutput = "SELECT * FROM employees";
19
20     public static void main(String[] args) {
21
22         try {
23             Connection connection = DriverManager.getConnection(url, user, password);
24             Statement statement = connection.createStatement();
25             setResultSet(statement.executeUpdate(queryUpdate));
26             ResultSet resultSet = statement.executeQuery(queryOutput);
27
28         } catch (SQLException e) {
29             e.printStackTrace();
30         }
31     }
32 }
```

The Console window at the bottom shows the output of the application:

```
<terminated> DeletingData [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (Oct 11, 2024, 9:04:19 AM – 9:04:20 AM) [pid: 15268]
List of Employees
id: 1, Name: John Doe, Email: john.doe@luv2code.com, Department: HR, Salary: 55000.0
id: 2, Name: Mary Public, Email: mary.public@foo.com, Department: Engineering, Salary: 75000.0
id: 3, Name: Susan Queue, Email: susan.queue@foo.com, Department: Legal, Salary: 130000.0
id: 4, Name: David Williams, Email: david.williams@foo.com, Department: HR, Salary: 120000.0
id: 5, Name: Lisa Johnson, Email: lisa.johnson@foo.com, Department: Engineering, Salary: 50000.0
id: 6, Name: Paul Smith, Email: paul.smith@foo.com, Department: Legal, Salary: 100000.0
id: 7, Name: Carl Adams, Email: carl.adams@foo.com, Department: HR, Salary: 50000.0
id: 8, Name: Bill Brown, Email: bill.brown@foo.com, Department: Engineering, Salary: 50000.0
id: 9, Name: Susan Thomas, Email: susan.thomas@foo.com, Department: Legal, Salary: 80000.0
id: 10, Name: John Davis, Email: john.davis@foo.com, Department: HR, Salary: 45000.0
id: 11, Name: Mary Fowler, Email: mary.fowler@foo.com, Department: Engineering, Salary: 65000.0
id: 12, Name: David Waters, Email: david.waters@foo.com, Department: Legal, Salary: 90000.0
```