In this example, we connect to a MySQL database using the JDBC driver **com.mysql.cj.jdbc.Driver**. We establish a connection by providing the database URL, username, and password. Then, we create a **Statement** object and execute a SQL query to select all records from the "customers" table. The result set is obtained by calling **executeQuery()** on the **Statement** object. We iterate over the result set using **resultSet.next()** and retrieve values using the column names or indexes.

Finally, we close the resources in the **finally** block to release the database connection and other JDBC objects.

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
public class JdbcExample {
  public static void main(String[] args) {
    // JDBC connection parameters
    String url = "jdbc:mysql://localhost:3306/mydatabase";
    String username = "myuser";
    String password = "mypassword";
    // Connection, Statement, and ResultSet variables
    Connection connection = null;
    Statement statement = null;
    ResultSet resultSet = null;
    try {
       // Step 1: Load and register the JDBC driver
       Class.forName("com.mysql.cj.jdbc.Driver");
       // Step 2: Establish the connection
       connection = DriverManager.getConnection(url, username, password);
       // Step 3: Create a statement
       statement = connection.createStatement();
       // Step 4: Execute a query
       String sqlQuery = "SELECT * FROM customers";
```

```
resultSet = statement.executeQuery(sqlQuery);
       // Step 5: Process the result set
       while (resultSet.next()) {
          int id = resultSet.getInt("id");
          String name = resultSet.getString("name");
          String email = resultSet.getString("email");
          System.out.println("ID: " + id + ", Name: " + name + ", Email: " +
email);
     } catch (ClassNotFoundException e) {
       e.printStackTrace();
     } catch (SQLException e) {
       e.printStackTrace();
     } finally {
       // Step 6: Close the resources
       try {
          if (resultSet != null) {
            resultSet.close();
          if (statement != null) {
            statement.close();
          if (connection != null) {
            connection.close();
        } catch (SQLException e) {
          e.printStackTrace();
       }
     }
  }
}
```

In this example, we first create a table named "customers" with three columns: "id" of type INT (integer), "name" of type VARCHAR (variable-length string), and "email" of type VARCHAR.

Then, we insert three records into the "customers" table using the **INSERT INTO** statement.

Finally, we select all records from the "customers" table using the **SELECT** statement, which retrieves all columns and rows from the table.

```
-- Create a table
CREATE TABLE customers (
id INT PRIMARY KEY,
 name VARCHAR(50),
 email VARCHAR(100)
);
-- Insert data into the table
INSERT INTO customers (id, name, email) VALUES
 (1, 'John Doe', 'john@example.com'),
 (2, 'Jane Smith', 'jane@example.com'),
 (3, 'Mike Johnson', 'mike@example.com');
-- Select all records from the table
SELECT * FROM customers;
<!DOCTYPE html>
<html>
<head>
  <title>Customer Records</title>
</head>
<body>
  <h1>Customer Records</h1>
  <th>ID</th>
      Name
      Email
    <!-- Table rows will be dynamically populated -->
  <script>
    // Use AJAX to fetch customer records from the server
    fetch('customers')
      .then(response => response.json())
      .then(data => {
        // Loop through the records and populate the table
        data.forEach(customer => {
          const row = document.createElement('tr');
          row.innerHTML = `
             ${customer.id}
```

```
$\{\customer.name}\{\td>\\
\ <\td>\$\{\customer.email}\{\td>\\
\`;
\ document.querySelector('table').appendChild(row);
\});
\})
\.\catch(\text{error} => \{
\console.\text{error}('Error:', \text{error});
\});
\{\script>\}
\\/body>
\{\text{html}>}
```

In this example, the **index.html** file contains an HTML table where the customer records will be dynamically populated using JavaScript. The script uses AJAX to fetch the customer records from the server.

The **web.xml** file is a configuration file for the Java web application. It includes mappings for the default servlet and the servlet responsible for handling customer requests. The **CustomerServlet** is defined with the servlet class **com.example.CustomerServlet** and is mapped to the URL pattern **/customers**. You need to create a servlet class (e.g., **CustomerServlet**) that will handle the **/customers** request and retrieve the customer records from the database. You can use JDBC within the servlet to execute the SQL query and retrieve the records.

```
<init-param>
                               <param-name>listings</param-name>
                               <param-value>false</param-value>
                     </init-param>
                     <load-on-startup>1</load-on-startup>
          </servlet>
          <servlet-mapping>
                     <servlet-name>DefaultServlet/servlet-name>
                     <url><url-pattern>/</url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></url-pattern></
          </servlet-mapping>
          <!-- Servlet mapping for handling customer requests -->
          <servlet>
                     <servlet-name>CustomerServlet/servlet-name>
                     <servlet-class>com.example.CustomerServlet</servlet-class>
          </servlet>
          <servlet-mapping>
                     <servlet-name>CustomerServlet</servlet-name>
                     <url-pattern>/customers</url-pattern>
          </servlet-mapping>
</web-app>
```