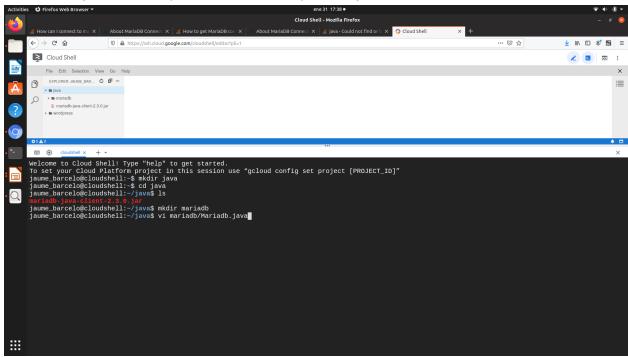
Course: Database management

Unit: Advanced SQL 1

Material: SQL statements in a java application

The following steps show you how to create a java program that connects to MariaDB.



You can obtain the jar file running the following command wget

https://downloads.mariadb.com/Connectors/java/connector-java-2.3.0/mariadb-java-client-2.3.0.j ar

The following is example code to connect to the database //STEP 1. Import required packages package mariadb;

```
import java.sql.*;
public class Mariadb {
    // JDBC driver name and database URL
    static final String JDBC_DRIVER = "org.mariadb.jdbc.Driver";
    static final String DB_URL = "jdbc:mariadb://172.18.0.2/mydb";

// Database credentials
    static final String USER = "root";
    static final String PASS = "root";
```

```
public static void main(String[] args) {
  Connection conn = null;
  Statement stmt = null;
  try {
    //STEP 2: Register JDBC driver
     Class.forName("org.mariadb.jdbc.Driver");
    //STEP 3: Open a connection
     System.out.println("Connecting to a selected database...");
     conn = DriverManager.getConnection(
          "jdbc:mariadb://172.18.0.2/mydb", "root", "secret");
     System.out.println("Connected database successfully...");
     //STEP 4: Execute a query
     System.out.println("Creating table in given database...");
     stmt = conn.createStatement();
     String sql = "CREATE TABLE REGISTRATION"
          + "(id INTEGER not NULL, "
          + " first VARCHAR(255), "
          + " last VARCHAR(255), "
          + " age INTEGER, "
          + " PRIMARY KEY ( id ))";
     stmt.executeUpdate(sql);
     System.out.println("Created table in given database...");
  } catch (SQLException se) {
    //Handle errors for JDBC
     se.printStackTrace();
  } catch (Exception e) {
     //Handle errors for Class.forName
     e.printStackTrace();
  } finally {
    //finally block used to close resources
       if (stmt != null) {
          conn.close();
    } catch (SQLException se) {
    }// do nothing
     try {
       if (conn != null) {
```

```
conn.close();
       }
    } catch (SQLException se) {
       se.printStackTrace();
     }//end finally try
  }//end try
  System.out.println("Goodbye!");
}//end main
```

}//end JDBCExample

