Java Week 10: Q5

Due on 2020-11-26, 23:59 IST

Complete the code segment ***to rename an already created table named 'PLAYERS' into 'SPORTS'.***

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1		No. of columns : 4\n Column 1 Name: UID\n Column 1 Type : INT\n Column 2 Name: First_Name\n Column 2 Type : VARCHAR\n Column 3 Name: Last_Name\n Column 3 Type : VARCHAR\n Column 4 Name: Age\n Column 5 Type : INT\n	No. of columns : 4\n Column 1 Name: UID\n Column 1 Type : INT\n Column 2 Name: First_Name\n Column 2 Type : VARCHAR\n Column 3 Name: Last_Name\n Column 3 Type : VARCHAR\n Column 4 Name: Age\n Column 5 Type : INT\n	Passed

The due date for submitting this assignment has passed.
1 out of 1 tests passed.
You scored 100.0/100.

Assignment submitted on 2020-11-25, 20:32 IST

Your last recorded submission was :

```
import java.sql.*;
import java.lang.*;
public class RenameTable {
    public static void main(String args[]) {
        try {
              Connection conn = null;
              Statement stmt = null;
              String DB_URL = "jdbc:sqlite:/tempfs/db";
              System.setProperty("org.sqlite.tmpdir", "/tempfs");

              // Open a connection
              conn = DriverManager.getConnection(DB_URL);
              stmt = conn.createStatement();

// The statement containing SQL command to create table "players"
String CREATE_TABLE_SQL="CREATE TABLE players (UID INT, First_Name VARCHAR(45), Last_Name VARCHAR(45), Age INT);";
// Execute the statement containing SQL command
stmt.executeUpdate(CREATE_TABLE_SQL);

//String CREATE_TABLE_SQL="CREATE TABLE players (UID INT, First_Name VARCHAR(45), Last_Name VARCHAR(45), Age INT);";

// Execute the SQL command
//stmt.executeUpdate(CREATE_TABLE_SQL);
// Write the SQL command to rename a table
String alter="ALTER TABLE players RENAME TO sports;";

stmt.executeUpdate(alter);
/*

 ResultSet rs = stmt.executeQuery("SELECT * FROM sports;");
            ResultSetMetaData rsmd = rs.getMetaData();
            System.out.println("No. of columns : " + rsmd.getColumnCount());
            System.out.println("Column 1 Name: " + rsmd.getColumnName(1));
            System.out.println("Column 1 Type : " + rsmd.getColumnTypeName(1));
            System.out.println("Column 2 Name: " + rsmd.getColumnName(2));
            System.out.println("Column 2 Type : " + rsmd.getColumnTypeName(2));
            System.out.println("Column 3 Name: " + rsmd.getColumnName(3));
            System.out.println("Column 3 Type : " + rsmd.getColumnTypeName(3));
            System.out.println("Column 4 Name: " + rsmd.getColumnName(4));
            System.out.println("Column 5 Type : " + rsmd.getColumnTypeName(4));
            stmt.close();
            conn.close();
*/
            ResultSet rs = stmt.executeQuery("SELECT * FROM sports;");
            ResultSetMetaData rsmd = rs.getMetaData();
            System.out.println("No. of columns : " + rsmd.getColumnCount());
            System.out.println("Column 1 Name: " + rsmd.getColumnName(1));
            System.out.println("Column 1 Type : " + rsmd.getColumnTypeName(1));
            System.out.println("Column 2 Name: " + rsmd.getColumnName(2));
            System.out.println("Column 2 Type : " + rsmd.getColumnTypeName(2));
            System.out.println("Column 3 Name: " + rsmd.getColumnName(3));
            System.out.println("Column 3 Type : " + rsmd.getColumnTypeName(3));
            System.out.println("Column 4 Name: " + rsmd.getColumnName(4));
            System.out.println("Column 5 Type : " + rsmd.getColumnTypeName(4));
            stmt.close();
            conn.close();

        }
        catch(Exception e){ System.out.println(e);}
    }
}
```

Sample solutions (Provided by instructor)

```
import java.sql.*;
import java.lang.*;
public class RenameTable {
    public static void main(String args[]) {
        try {
              Connection conn = null;
              Statement stmt = null;
              String DB_URL = "jdbc:sqlite:/tempfs/db";
              System.setProperty("org.sqlite.tmpdir", "/tempfs");

              // Open a connection
              conn = DriverManager.getConnection(DB_URL);
              stmt = conn.createStatement();

// The statement containing SQL command to create table "players"
String CREATE_TABLE_SQL="CREATE TABLE players (UID INT, First_Name VARCHAR(45), Last_Name VARCHAR(45), Age INT);";
// Execute the statement containing SQL command
stmt.executeUpdate(CREATE_TABLE_SQL);

// Write the SQL command to rename a table
String alter="ALTER TABLE players RENAME TO sports;";
```

```
22
23 // Execute the SQL command
24 stmt.executeUpdate(alter);
25
26
27
28
29             ResultSet rs = stmt.executeQuery("SELECT * FROM sports;");
30             ResultSetMetaData rsmd = rs.getMetaData();
31             System.out.println("No. of columns : " + rsmd.getColumnCount());
32             System.out.println("Column 1 Name: " + rsmd.getColumnName(1));
33             System.out.println("Column 1 Type : " + rsmd.getColumnTypeName(1));
34             System.out.println("Column 2 Name: " + rsmd.getColumnName(2));
35             System.out.println("Column 2 Type : " + rsmd.getColumnTypeName(2));
36             System.out.println("Column 3 Name: " + rsmd.getColumnName(3));
37             System.out.println("Column 3 Type : " + rsmd.getColumnTypeName(3));
38             System.out.println("Column 4 Name: " + rsmd.getColumnName(4));
39             System.out.println("Column 5 Type : " + rsmd.getColumnTypeName(4));
40             stmt.close();
41             conn.close();
42
43         }
44        catch(Exception e){ System.out.println(e);}
45     }
46 }
47
```