Java Week 11 : Q4

Due on 2020-12-03, 23:59 IST

Complete the following program to **calculate the average age of the players in the table '*PLAYERS*'.**

Structure of Table 'PLAYERS' is given below:

Column	UID	First_Name	Last_Name	Age
Type	Integer	Varchar (45)	Varchar (45)	Integer

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1		Average age of players is 24	NA	Not able to run

The due date for submitting this assignment has passed.
0 out of 1 tests passed.
You scored 0.0/100.

Assignment submitted on 2020-11-25, 20:47 IST

Your last recorded submission was :

```
import java.sql.*;
import java.lang.*;
public class CalAverage {
    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");
              String query="";
              // Open a connection
              conn = DriverManager.getConnection(DB_URL);
              stmt = conn.createStatement();
String CREATE_TABLE_SQL="CREATE TABLE players ( UID INT, first_name VARCHAR(45), last_name VARCHAR(45), age INT);";
             stmt.executeUpdate(CREATE_TABLE_SQL);
             query = " insert into Players (UID, first_name, last_name, age)"  + " values (?, ?, ?, ?)";
             PreparedStatement preparedStmt = conn.prepareStatement(query);
             preparedStmt.setInt (1, 1);
             preparedStmt.setString (2, "Rama");
             preparedStmt.setString (3, "Gopala");
             preparedStmt.setInt(4, 24);
             preparedStmt.execute();
             preparedStmt.setInt (1, 2);
             preparedStmt.setString (2, "John");
             preparedStmt.setString   (3, "Mayer");
             preparedStmt.setInt(4, 22);
             preparedStmt.execute();
             preparedStmt.setInt (1, 3);
             preparedStmt.setString (2, "Leo");
             preparedStmt.setString   (3, "Martin");
             preparedStmt.setInt(4, 27);
             preparedStmt.execute();

// Get the age of the players

// Write program to calculate the average age

// Print "Average age of players is XX" ; where XX is the INTEGER value of age.
/*String CREATE_TABLE_SQL="CREATE TABLE players ( UID INT, first_name VARCHAR(45), last_name VARCHAR(45), age INT);";
             stmt.executeUpdate(CREATE_TABLE_SQL);
             query = " insert into Players (UID, first_name, last_name, age)"  + " values (?, ?, ?, ?)";
             PreparedStatement preparedStmt = conn.prepareStatement(query);
             preparedStmt.setInt (1, 1);
             preparedStmt.setString (2, "Rama");
             preparedStmt.setString (3, "Gopala");
             preparedStmt.setInt(4, 24);
             preparedStmt.execute();
             preparedStmt.setInt (1, 2);
             preparedStmt.setString (2, "John");
             preparedStmt.setString   (3, "Mayer");
             preparedStmt.setInt(4, 22);
             preparedStmt.execute();
             preparedStmt.setInt (1, 3);
             preparedStmt.setString (2, "Leo");
             preparedStmt.setString   (3, "Martin");
             preparedStmt.setInt(4, 27);
             preparedStmt.execute();*/

             ResultSet rs = stmt.executeQuery("SELECT * FROM players;");
             int count=0,total=0;
             while(rs.next()){
                 count++;
                 total = total + Integer.parseInt(rs.getString(4));
             }

             //Output
             System.out.println("Average age of players is " +(total/count));


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

Sample solutions (Provided by instructor)

```
import java.sql.*;
import java.lang.*;
public class CalAverage {
    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");
              String query="";
              // Open a connection
              conn = DriverManager.getConnection(DB_URL);
```

```
            stmt = conn.createStatement();
String CREATE_TABLE_SQL="CREATE TABLE players ( UID INT, first_name VARCHAR(45), last_name VARCHAR(45), age INT);";
            stmt.executeUpdate(CREATE_TABLE_SQL);
            query = " insert into Players (UID, first_name, last_name, age)"  + " values (?, ?, ?, ?)";
            PreparedStatement preparedStmt = conn.prepareStatement(query);
            preparedStmt.setInt (1, 1);
            preparedStmt.setString (2, "Rama");
            preparedStmt.setString (3, "Gopala");
            preparedStmt.setInt(4, 24);
            preparedStmt.execute();
            preparedStmt.setInt (1, 2);
            preparedStmt.setString (2, "John");
            preparedStmt.setString   (3, "Mayer");
            preparedStmt.setInt(4, 22);
            preparedStmt.execute();
            preparedStmt.setInt (1, 3);
            preparedStmt.setString (2, "Leo");
            preparedStmt.setString   (3, "Martin");
            preparedStmt.setInt(4, 27);
            preparedStmt.execute();

               ResultSet rs = stmt.executeQuery("SELECT * FROM players;");
            int count=0,total=0;
            while(rs.next()){
                count++;
                total = total + Integer.parseInt(rs.getString(4));
            }

            //Output
            System.out.println("Average age of players is " +(total/count));
  conn.close();
                }
                  catch(Exception e){ System.out.println(e);}
    }
}
```