

## 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 :

```

1 import java.sql.*;
2 import java.lang.*;
3 public class CalAverage {
4     public static void main(String args[]) {
5         try {
6             Connection conn = null;
7             Statement stmt = null;
8             String DB_URL = "jdbc:sqlite:/tmpfs/db";
9             System.setProperty("org.sqlite.tmpdir", "/tmpfs");
10            String query="";
11            // Open a connection
12            conn = DriverManager.getConnection(DB_URL);
13            stmt = conn.createStatement();
14            String CREATE_TABLE_SQL="CREATE TABLE players ( UID INT, first_name VARCHAR(45), last_name VARCHAR(45), age INT);";
15            stmt.executeUpdate(CREATE_TABLE_SQL);
16            query = " insert into Players (UID, first_name, last_name, age)" + " values (?, ?, ?, ?)";
17            PreparedStatement preparedStmt = conn.prepareStatement(query);
18            preparedStmt.setInt (1, 1);
19            preparedStmt.setString (2, "Rama");
20            preparedStmt.setString (3, "Gopala");
21            preparedStmt.setInt(4, 24);
22            preparedStmt.execute();
23            preparedStmt.setInt (1, 2);
24            preparedStmt.setString (2, "John");
25            preparedStmt.setString (3, "Mayer");
26            preparedStmt.setInt(4, 22);
27            preparedStmt.execute();
28            preparedStmt.setInt (1, 3);
29            preparedStmt.setString (2, "Leo");
30            preparedStmt.setString (3, "Martin");
31            preparedStmt.setInt(4, 27);
32            preparedStmt.execute();
33
34            // Get the age of the players
35
36            // Write program to calculate the average age
37
38            // Print "Average age of players is XX" ; where XX is the INTEGER value of age.
39            /*String CREATE_TABLE_SQL="CREATE TABLE players ( UID INT, first_name VARCHAR(45), last_name VARCHAR(45), age INT);";
40            stmt.executeUpdate(CREATE_TABLE_SQL);
41            query = " insert into Players (UID, first_name, last_name, age)" + " values (?, ?, ?, ?)";
42            PreparedStatement preparedStmt = conn.prepareStatement(query);
43            preparedStmt.setInt (1, 1);
44            preparedStmt.setString (2, "Rama");
45            preparedStmt.setString (3, "Gopala");
46            preparedStmt.setInt(4, 24);
47            preparedStmt.execute();
48            preparedStmt.setInt (1, 2);
49            preparedStmt.setString (2, "John");
50            preparedStmt.setString (3, "Mayer");
51            preparedStmt.setInt(4, 22);
52            preparedStmt.execute();
53            preparedStmt.setInt (1, 3);
54            preparedStmt.setString (2, "Leo");
55            preparedStmt.setString (3, "Martin");
56            preparedStmt.setInt(4, 27);
57            preparedStmt.execute();*/
58
59            ResultSet rs = stmt.executeQuery("SELECT * FROM players;");
60            int count=0,total=0;
61            while(rs.next()){
62                count++;
63                total = total + Integer.parseInt(rs.getString(4));
64            }
65
66            //Output
67            System.out.println("Average age of players is " +(total/count));
68
69            conn.close();
70            conn.close();
71        } catch (Exception e){ System.out.println(e);}
72    }
73 }
74 }
75 }

```

Sample solutions (Provided by instructor)

```

1 import java.sql.*;
2 import java.lang.*;
3 public class CalAverage {
4     public static void main(String args[]) {
5         try {
6             Connection conn = null;
7             Statement stmt = null;
8             String DB_URL = "jdbc:sqlite:/tmpfs/db";
9             System.setProperty("org.sqlite.tmpdir", "/tmpfs");
10            String query="";
11            // Open a connection
12            conn = DriverManager.getConnection(DB_URL);
13

```

### Course outline

How does an NPTEL online course work?

Week 0 : Assignment 0

Week 1 :

Week 2 :

Week 3 :

Week 4 :

Week 5 :

Week 6 :

Week 7 :

Week 8 :

Week 9 :

Week 10 :

Week 11 :

• Lecture 51 : JDBC—II

• Lecture 52 : JDBC—III

• Lecture 53 : Demonstration —XX

• Lecture 54 : Demonstration —XXI

• Lecture 55 : Demonstration —XXII

• Quiz: Assignment 11

• Java Week 11 : Q1

• Java Week 11 : Q2

• Java Week 11 : Q3

• Java Week 11 : Q4

• Java Week 11 : Q5

• Feedback For Week 11

Week 12 :

Solution

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Text Transcripts

Programming Test - (April 11 - 10AM - 12 PM)

Programming Test - (April 11 - 8PM - 10 PM)

```

13         stmt = conn.createStatement();
14 String CREATE_TABLE_SQL="CREATE TABLE players ( UID INT, first_name VARCHAR(45), last_name VARCHAR(45), age INT);";
15 stmt.executeUpdate(CREATE_TABLE_SQL);
16 query = " insert into Players (UID, first_name, last_name, age)" + " values (?, ?, ?, ?)";
17 PreparedStatement preparedStmt = conn.prepareStatement(query);
18 preparedStmt.setInt (1, 1);
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31 preparedStmt.setInt(4, 27);
32 preparedStmt.execute();
33
34         ResultSet rs = stmt.executeQuery("SELECT * FROM players;");
35         int count=0,total=0;
36         while(rs.next()){
37             count++;
38             total = total + Integer.parseInt(rs.getString(4));
39         }
40
41         //Output
42         System.out.println("Average age of players is " +(total/count));
43     conn.close();
44     }
45     catch(Exception e){ System.out.println(e);}
46 }
47 }

```