## Update a Player's Age Using JDBC (Improved Guided Version)

## Problem Statement

You are given a table players containing a player's UID, first name, last name, and age. Your task is to update the age of the player whose UID is 2, using a PreparedStatement.

You only need to write one line of code to perform this update operation.

Private Test cases used for evaluation Input Expected Output Actual Output Status Test Case 1 2 John Mayer Passed 2 John Mayer 23\n

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

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Assignment submitted on 2025-04-10, 01:10 IST
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```
Your last recorded submission was
    import java.sql.*; // Required for database access
{
// Set SQLite temp directory (necessary in NPTEL environment)
System.setProperty("org.sqlite.tmpdir", "/tempfs");
                    // Connect to SQLite database file
Connection conn = DriverManager.getConnection("jdbc:sqlite:/tempfs/db");
                    // Create the table if it does not already exist
String CREATE TABLE_SQL = "CREATE TABLE IF NOT EXISTS players (UID INT, First_Name VARCHAR(45), Last_Name VAR
stmt.executeUpdate(CREATE_TABLE_SQL);
                    // Clean up old data and insert one row
stmt.executeUpdate("DELETE FROM players");
stmt.executeUpdate("INSERT INTO players VALUES(2, 'John', 'Mayer', 22)");
    45
46 }
         }
Sample solutions (Provided by instructor)
                    // Set SQLite temp directory (necessary in NPTEL environment)
System.setProperty("org.sqlite.tmpdir", "/tempfs");
                    // Connect to SQLite database file
Connection conn = DriverManager.getConnection("jdbc:sqlite:/tempfs/db");
```

// Create a Statement object to run SQL queries
Statement stmt = conn.createStatement(); // Create the table if it does not already exist String CREATE\_TABLE\_SQL = "CREATE TABLE IF NOT EXISTS players (UID INT, First\_Name VARCHAR(45), Last\_Name VAR stmt.executeUpdate(CREATE\_TABLE\_SQL); // Clean up old data and insert one row stmt.executeUpdate("DELETE FROM players"); stmt.executeUpdate("INSERT INTO players VALUES(2, 'John', 'Mayer', 22)"); // Prepare SQL update query with placeholders (?)
String sql = "UPDATE players SET Age = ? WHERE UID = ?";
PreparedStatement pstmt = conn.prepareStatement(sql);
pstmt.setInt(1, 23); // Bind 23 to the first placeholder (new age)
pstmt.setInt(2, 2); // Bind 2 to the second placeholder (UID to match)
pstmt.executeUpdate(); // Perform the update /^ Explanation for beginners: - The SQL statement has two placeholders: one for the age and one for the UID. - The '1' and '2' in setInt refer to the positions of ? in the query. - This approach is safer and cleaner than using plain string concatenation in SQL. This approach is safer and creame.

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// Check the updated row by selecting and printing it

ResultSet rs = stmt.executeQuery("SELECT \* FROM players WHERE UID = 2"); while (rs.next()) {
 System.out.println(rs.getInt(1) + "
 rs.getString(2) +
 rs.getInt(4));