## Retrieve and Display Records from a Table Using JDBC

## Problem Statement

You are given a table named players containing player records. Your task is to retrieve all rows from the table and display their details.

In this task, the SQL query is already written.

You just need to write one line of code to execute the query using Statement.executeQuery() and store the result in a ResultSet.

This problem introduces the basics of how Java retrieves records using JDBC.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1		4 Neha Sharma 25\n 5 Aman Verma 21	4 Neha Sharma 25\n 5 Aman Verma 21\n	Passed
1001 0400 1		5 Aman Verma 21	5 Aman Verma 21\n	rassea

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

## Assignment submitted on 2025-04-08, 22:07 IST

```
Your last recorded submission was
     import java.sql.*;
      {
// Set SQLite temp path (required for NPTEL environment)
System.setProperty("org.sqlite.tmpdir", "/tempfs");
                           // Establish database connection
Connection conn = DriverManager.getConnection("jdbc:sqlite:/tempfs/db");
                           // Create table and insert records
Statement stmt = conn.createStatement();
String CREATE_TABLE_SQL = "CREATE TABLE IF NOT EXISTS players (UID INT, First_Name VARCHAR(45), Last_Name VAR
stmt.executeUpdate(CREATE_TABLE_SQL);
                           // Clear previous rows and add new ones
stmt.executeUpdate("DELETE FROM players");
stmt.executeUpdate("INSERT INTO players VALUES(4, 'Neha', 'Sharma', 25)");
stmt.executeUpdate("INSERT INTO players VALUES(5, 'Aman', 'Verma', 21)");
     // Close connection
conn.close();
} catch (Exception e) {
   System.out.println(e);
```

Sample solutions (Provided by instructor)

```
public class W11 P4 {
   public static void main(String args[]) {
      try {
      // Set SOLite temp path (required)
                               // Set SQLite temp path (required for NPTEL environment)
System.setProperty("org.sqlite.tmpdir", "/tempfs");
                               // Establish database connection
Connection conn = DriverManager.getConnection("jdbc:sqlite:/tempfs/db");
                               // Create table and insert records
Statement stmt = conn.createStatement();
String CREATE_TABLE_SQL = "CREATE TABLE IF NOT EXISTS players (UID INT, First_Name VARCHAR(45), Last_Name VAR
stmt.executeUpdate(CREATE_TABLE_SQL);
                               // Clear previous rows and add new ones
stmt.executeUpdate("DELETE FROM players");
stmt.executeUpdate("INSERT INTO players VALUES(4, 'Neha', 'Sharma', 25)");
stmt.executeUpdate("INSERT INTO players VALUES(5, 'Aman', 'Verma', 21)");
      // Define the SQL query string
    String sql = "SELECT * FROM players";
ResultSet rs = stmt.executeQuery(sql); // Execute the SQL SELECT query and store result
      /*
Explanation:
- The query "SELECT * FROM players" is stored in 'sql'.
- stmt.executeQuery(sql) sends the query and returns results.
- These are stored in ResultSet, which can be iterated using rs.next().
*/
       // Close connection
conn.close();
catch (Exception e) {
  System.out.println(e);
```