MODERN APPLICATION DEVELOPMENT (JAVA SPRING BOOT) <u>ASSIGNMENT-3</u>

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GOOGLE DRIVE LINK:

https://drive.google.com/drive/folders/1JAhLFfPshM_W3 SUYOyVQd4q0AEha4qNX?usp=drive_link

1.IMPLEMENT JDBC CONNECTIVITY USING JAVA

a.Statement

b.PreparedStatement

In Mysql:

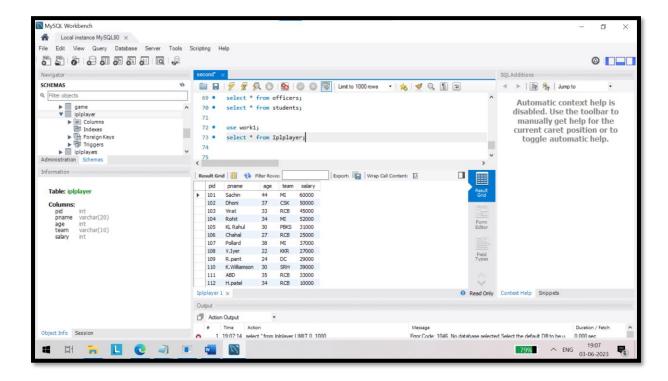
I Created table Iplplayer with attributes (pid,pname,age,team,salary).

```
create table Iplplayer(
  pid int,
  pname varchar(20),
  age int,
  team varchar(10),
  salary int
);
```

Inserting values for the table:

```
insert into Iplplayer values(101, 'Sachin', 44, 'MI', 60000);
insert into Iplplayer values(102, 'Dhoni', 37, 'CSK', 50000);
insert into Iplplayer values(103, 'Virat', 33, 'RCB', 45000);
insert into Iplplayer values(104, 'Rohit', 34, 'MI', 52000);
insert into Iplplayer values(105, 'KL Rahul', 30, 'PBKS', 31000);
insert into Iplplayer values(106, 'Chahal', 27, 'RCB', 25000);
insert into Iplplayer values(107, 'Pollard', 38, 'MI', 37000);
insert into Iplplayer values(108, 'V. Iyer', 22, 'KKR', 27000);
insert into Iplplayer values(109, 'R.pant', 24, 'DC', 29000);
insert into Iplplayer values(110, 'K.Williamson', 30, 'SRH', 39000);
insert into Iplplayer values(111, 'ABD', 35, 'RCB', 33000);
```

select * from Iplplayer;



A. STATEMENT INTERFACE (staticqueries)

JAVE CODE:

In this code, I have used a query to select the details of players who are getting salary greater than 47000

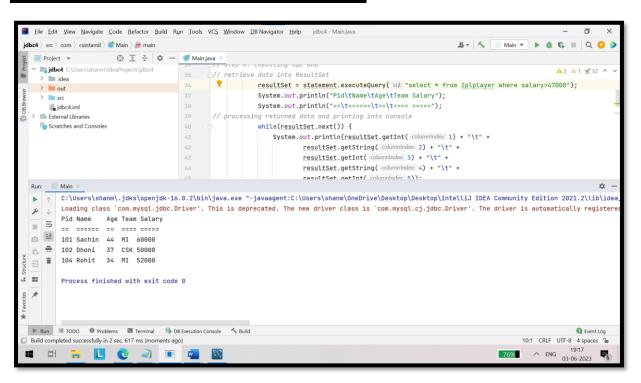
Query:

Select * from Iplplayer where salary>47000.

```
package com.csintamil;
import java.sql.*;
public class Main {
    public static void main(String[] args)
    {
```

```
// variables
        Connection connection = null;
        Statement statement = null;
        ResultSet resultSet = null;
// Step 1: Loading or
// registering MySQL JDBC driver class
        try {
            Class.forName("com.mysql.jdbc.Driver");
        catch(ClassNotFoundException cnfex) {
            System.out.println("Problem in"
                    + " loading MySQL JDBC driver");
            cnfex.printStackTrace();
        }
// Step 2: Opening database connection
        try {
            // Step 2.A: Create and
// get connection using DriverManager class
            connection = DriverManager.getConnection(
                    "jdbc:mysql://localhost:3306/work1",
                    "root",
                    "sairam");
// Step 3: Creating JDBC Statement
            statement = connection.createStatement();
// Step 4: Executing SQL and
// retrieve data into ResultSet
            resultSet = statement.executeQuery("select * from
Iplplayer where salary>47000");
            System.out.println("Pid\tName\tAge\tTeam Salary");
            System.out.println("==\t=====\t==\t=====");
// processing returned data and printing into console
            while(resultSet.next()) {
                System.out.println(resultSet.getInt(1) + "\t" +
                        resultSet.getString(2) + "\t" +
                        resultSet.getInt(3) + "\t" +
                        resultSet.getString(4) + "\t" +
                        resultSet.getInt(5));
            }
        catch(SQLException sqlex){
            sqlex.printStackTrace();
        finally {
// Step 5: Closing database connection
            try {
```

OUTPUT SCREENSHOTS:



B. PREPARED STATEMENT:

RETRIEVE VALUES BY PREPARED STATEMENT:

```
package com.csintamil;
import java.sql.*;
public class Main {
    public static void main(String[] args)
    {
        // variables
        Connection connection = null;
        Statement statement = null;
        ResultSet resultSet = null;
// Step 1: Loading or
// registering MySQL JDBC driver class
        try {
            Class.forName("com.mysql.jdbc.Driver");
        catch(ClassNotFoundException cnfex) {
            System.out.println("Problem in"
                    + " loading MySQL JDBC driver");
            cnfex.printStackTrace();
// Step 2: Opening database connection
        try {
// Step 2.A: Create and get connection using DriverManager class
            connection = DriverManager.getConnection(
                    "jdbc:mysql://localhost:3306/work1",
                    "root",
                    "sairam");
// Step 3: Creating JDBC Statement
            statement = connection.createStatement();
// Step 4: Executing SQL and
// retrieve data into ResultSet
            PreparedStatement stmt
                = connection.prepareStatement("select * from
Iplplayer where age>? and team=?");
            stmt.setInt(1, 30);
            stmt.setString(2,"RCB");
            resultSet = stmt.executeQuery();
```

```
System.out.println("Pid\tName\tAge\tTeam Salary");
            System.out.println("==\t=====\t==\t=====");
// processing returned data and printing into console
            while(resultSet.next()) {
                System.out.println(resultSet.getInt(1) + "\t" +
                        resultSet.getString(2) + "\t" +
                        resultSet.getInt(3) + "\t" +
                        resultSet.getString(4) + "\t" +
                        resultSet.getInt(5));
        catch(SQLException sqlex){
            sqlex.printStackTrace();
        finally {
// Step 5: Closing database connection
            try {
                if(null != connection) {
// cleanup resources, once after processing
                    resultSet.close();
                    statement.close();
// and then finally close connection
                    connection.close();
            catch (SQLException sqlex) {
                sqlex.printStackTrace();
        }
   }
}
```

In the above code, I have used a query to select the player who's age is greater than 30 and team='RCB' using Prepared Statement.

PreparedStatement stmt=connection.prepareStatement("select * from Iplplayer where age>? AND team=?");

```
stmt.setInt(1, 30);
stmt.setString(2,"RCB");
```

OUTPUT SCREENSHOT:

