

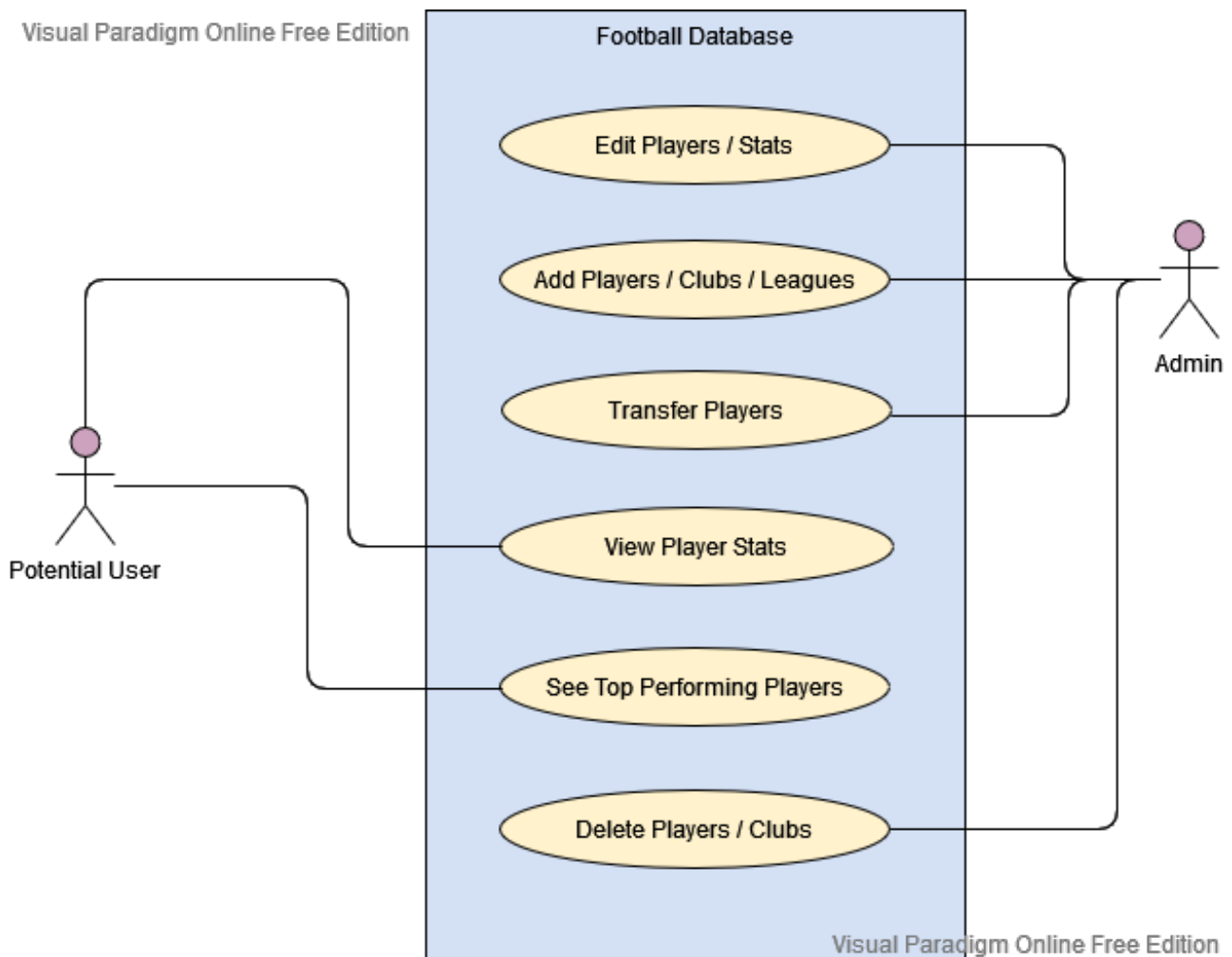
# JDBC Project - Football Player Database

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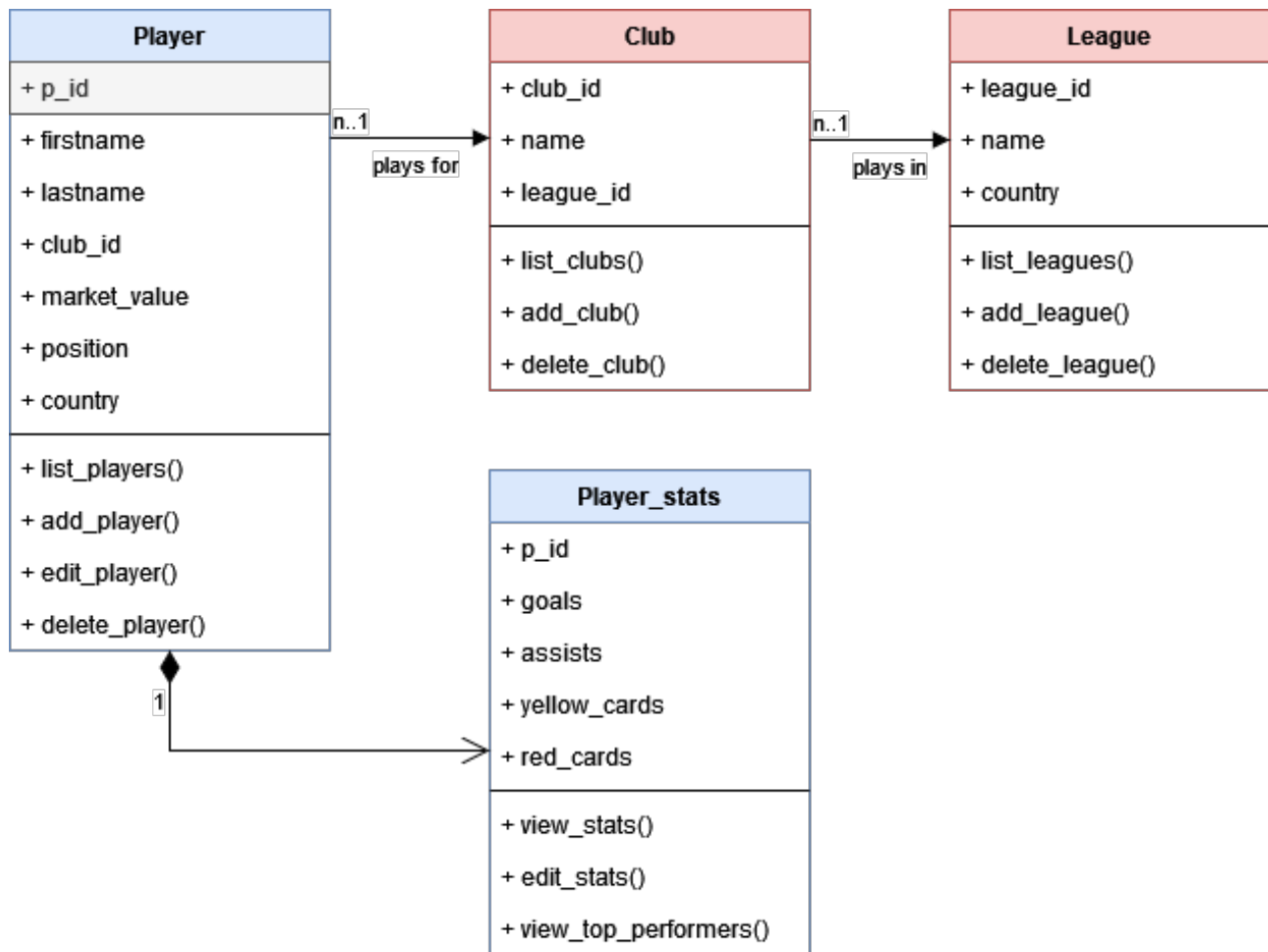
*Instructor:* Prof. Chandrashekar

*Date:* April 17, 2022

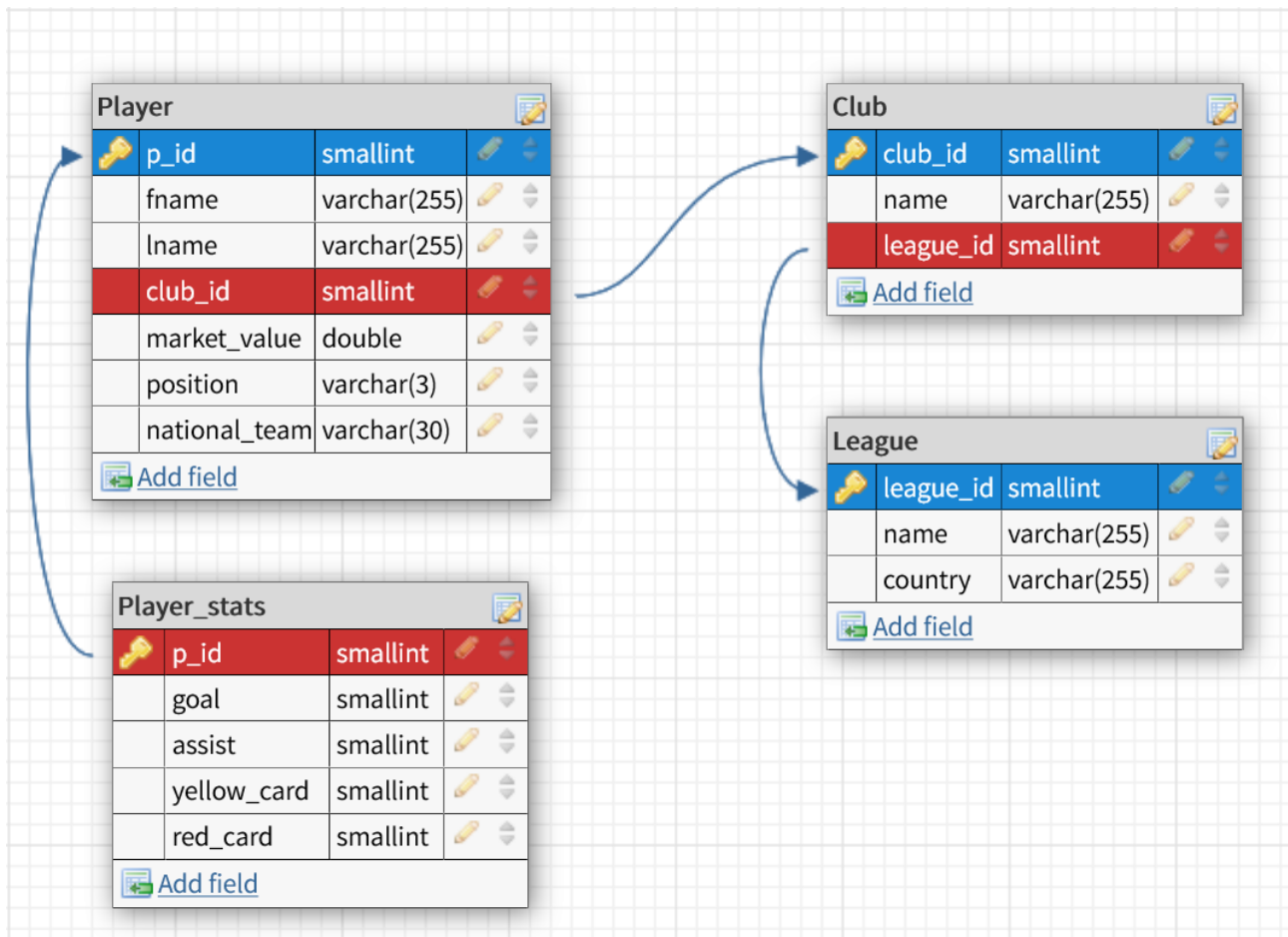
## 1 Use Case Diagram



## 2 UML Diagram



### 3 OR Mapping (DB Design)



### 4 Description

A simple User Driven Application to access database of football players, clubs and leagues.

**SQL commands used:** SELECT, INSERT, DELETE, UPDATE, INNER JOIN

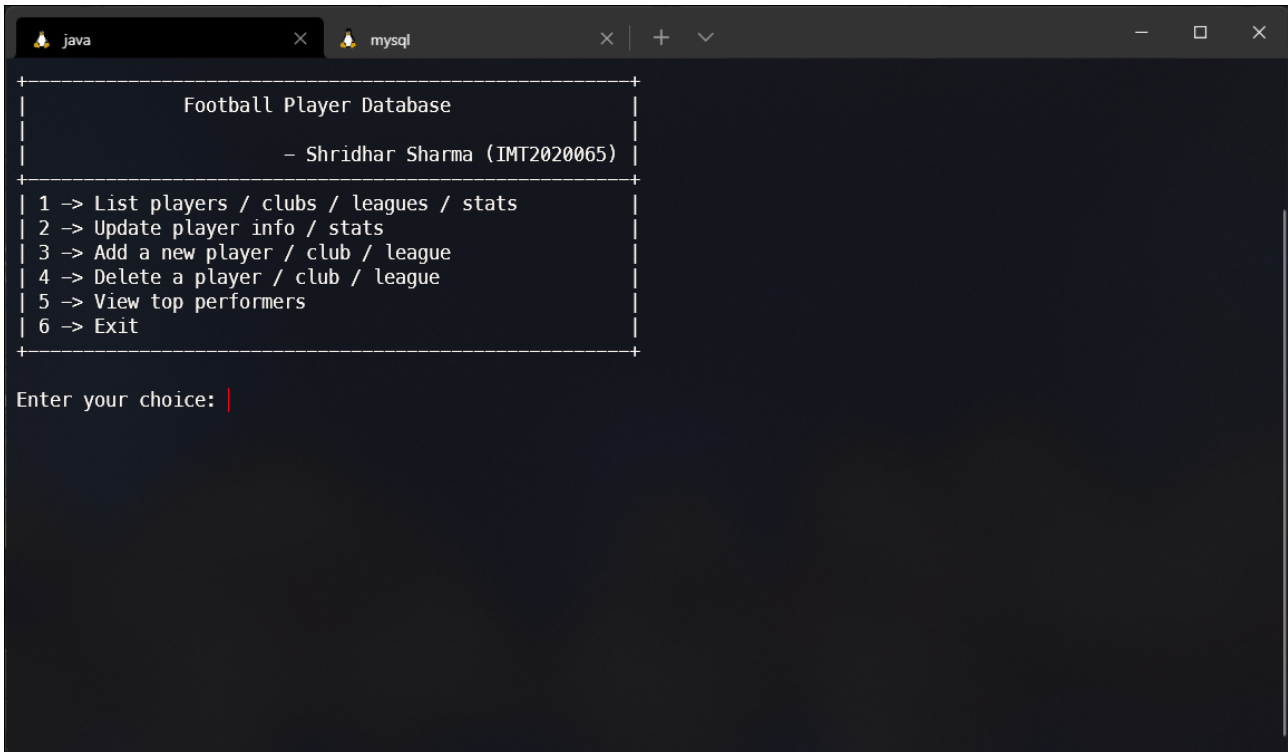
**Instructions to run the code:**

```

1 #In SQL console - will create and populate the database
2 source <complete path of create_football_db.sql>;
3
4 #In terminal -
5 export CLASSPATH='./mysql-connector-java-8.0.18.jar:.'
6 javac Main.java
7 java Main

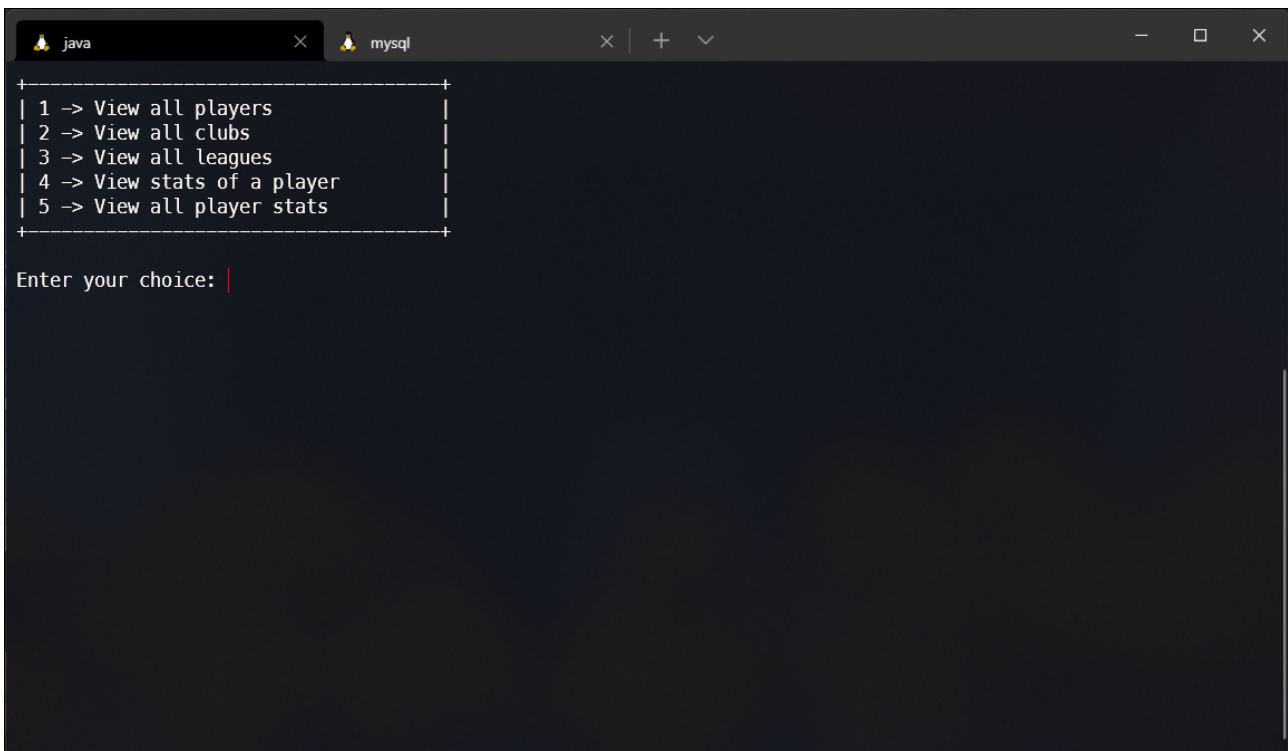
```

### 5 Output Screenshots



```
java mysql
+-----+
| Football Player Database |
| - Shridhar Sharma (IMT2020065) |
+-----+
| 1 -> List players / clubs / leagues / stats |
| 2 -> Update player info / stats |
| 3 -> Add a new player / club / league |
| 4 -> Delete a player / club / league |
| 5 -> View top performers |
| 6 -> Exit |
+-----+
Enter your choice: |
```

Figure 1: Main Menu



```
java mysql
+-----+
| 1 -> View all players |
| 2 -> View all clubs |
| 3 -> View all leagues |
| 4 -> View stats of a player |
| 5 -> View all player stats |
+-----+
Enter your choice: |
```

Figure 2: View Menu

pid	First Name	Last Name	cid	Mrkt Value	Pos	NT
1	Cristiano	Ronaldo	1	200.00	LW	Portugal
2	Luka	Modric	1	115.00	CM	Croatia
3	Sergio	Ramos	1	65.00	CB	Spain
4	Lionel	Messi	2	210.00	RW	Argentina
5	Gerard	Pique	2	50.00	CB	Spain
6	Luis	Suarez	2	95.00	ST	Uruguay
7	Antoine	Griezmann	3	100.00	RW	France
8	Jan	Oblak	3	40.00	GK	Slovenia
9	Sadio	Mane	4	60.00	ST	Senegal
10	Muhammed	Salah	4	80.00	LW	Egypt
11	Harry	Maguire	5	20.00	CB	England
12	Paul	Pogba	5	70.00	CAM	France
13	Thomas	Muller	6	60.00	CM	Germany
14	Robert	Lewandowski	6	100.00	ST	Poland
15	Erling	Halaand	7	175.00	ST	Norway
16	Paulo	Maldini	8	30.00	CB	Italy
17	Olivier	Giroud	8	34.00	ST	France
18	Paulo	Dybala	9	50.00	CM	Argentina

Press "ENTER" to return to main menu...

Figure 3: Example view query

What do you want to update?
1 -> Goals
2 -> Assists
3 -> Yellow Cards
4 -> Red Cards

Enter your choice: 1

Enter player ID: 18

Enter updated Goals: 13

Executing query.....

Press "ENTER" to return to main menu...

Figure 4: Example update query



```
java  mysql
TOP PERFORMERS ACROSS ALL LEAGUES

+-----+-----+
| Name                | Goals |
+-----+-----+
| Cristiano Ronaldo   | 41    |
| Lionel Messi        | 41    |
+-----+-----+

+-----+-----+
| Name                | Assists |
+-----+-----+
| Lionel Messi        | 34     |
+-----+-----+

+-----+-----+
| Name                | Yellow Cards |
+-----+-----+
| Gerard Pique        | 7         |
+-----+-----+

+-----+-----+
| Name                | Red Cards |
+-----+-----+
| Sergio Ramos        | 2         |
+-----+-----+

Press "ENTER" to return to main menu...
```

Figure 5: Top players

```
java  mysql
+-----+-----+
| 1 -> Add a new player |
| 2 -> Add a new club   |
| 3 -> Add a new league |
+-----+-----+

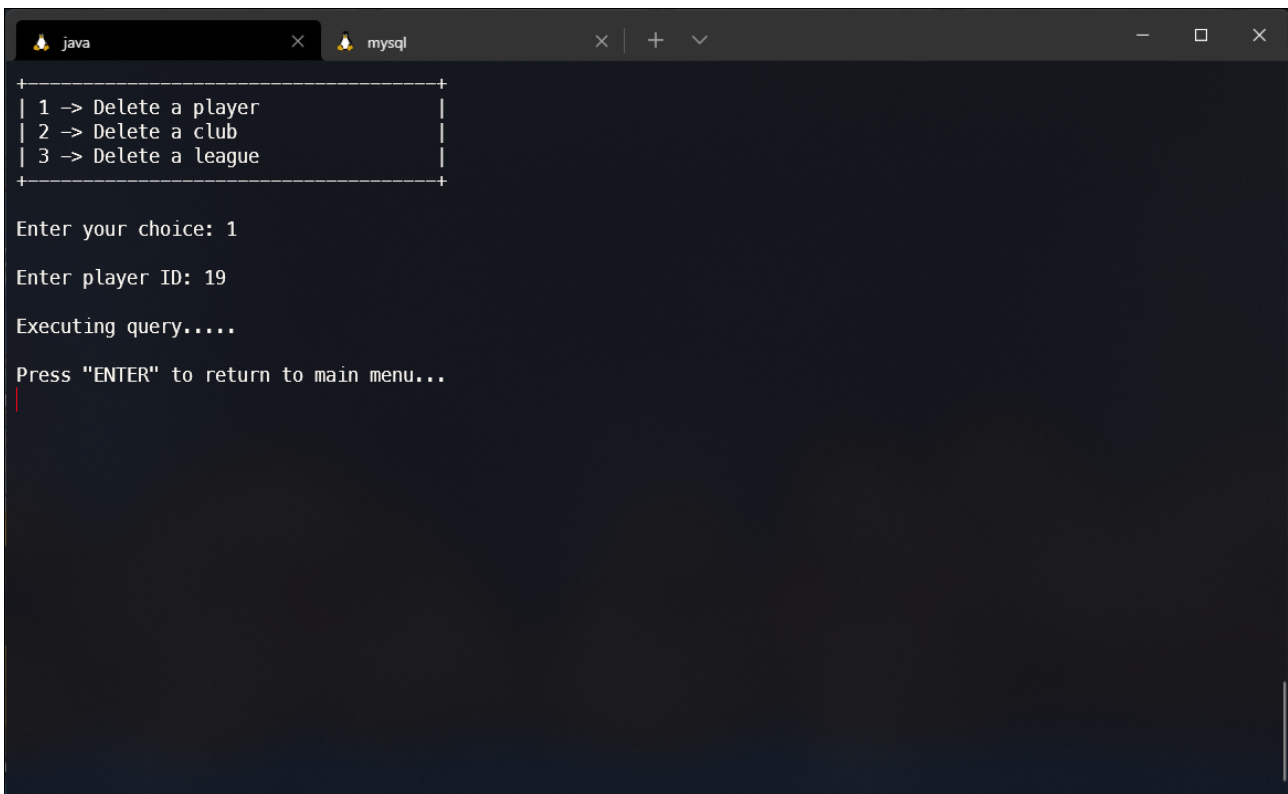
Enter your choice: 1

First Name: Neymar
Last Name: Jr
Club ID: 2
Market Value: 234
Position: LW
National Team: Brazil

Executing query.....

Press "ENTER" to return to main menu...
```

Figure 6: Example add query



```
java x mysql x + v - □ x
+-----+
| 1 -> Delete a player |
| 2 -> Delete a club   |
| 3 -> Delete a league  |
+-----+

Enter your choice: 1
Enter player ID: 19
Executing query.....
Press "ENTER" to return to main menu...
|
```

Figure 7: Example delete query