

SMARTBRIDGE EXTERNSHIP

Modern Application Development (JavaSpring Boot)

Assignment-3

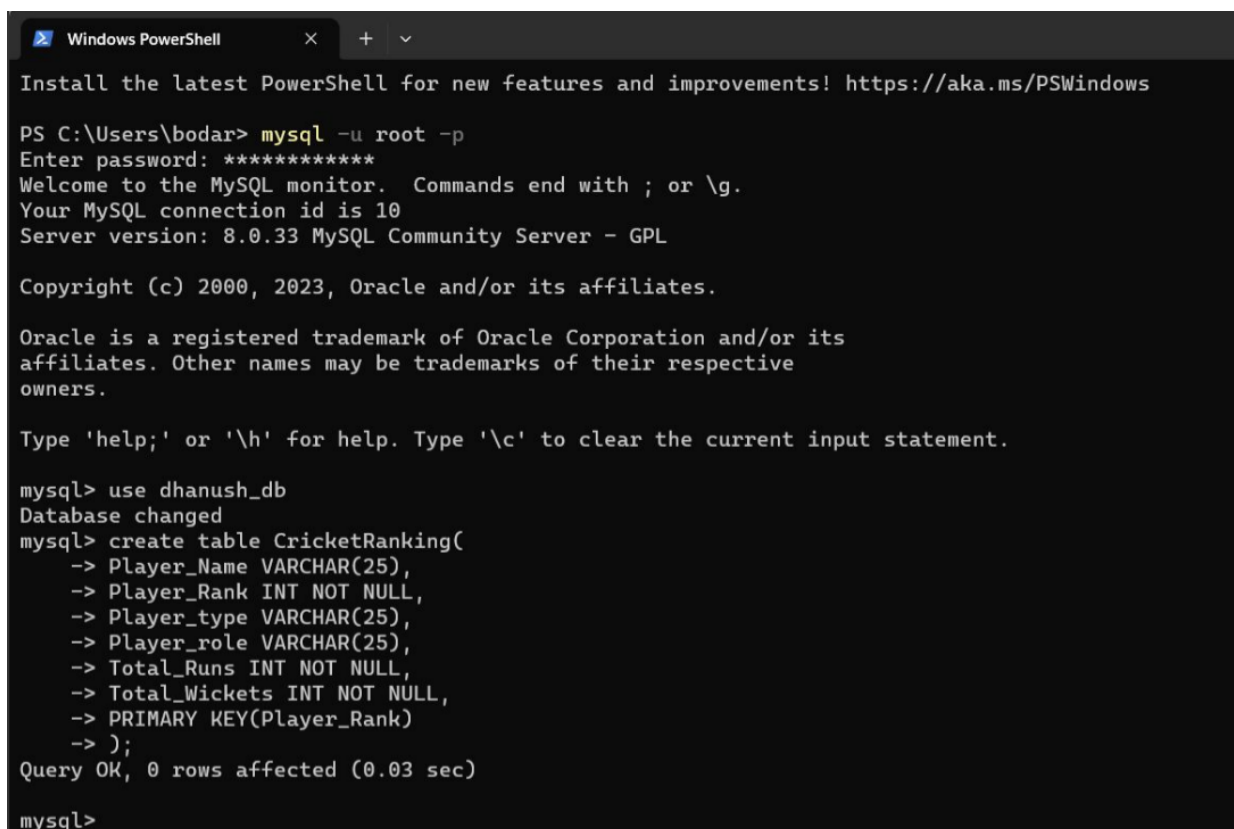
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Implementation JDBC using Java.

- Creating the database and connect to Java JDBC.



```
Windows PowerShell
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\bodar> mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.33 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use dhanush_db
Database changed
mysql> create table CricketRanking(
  -> Player_Name VARCHAR(25),
  -> Player_Rank INT NOT NULL,
  -> Player_type VARCHAR(25),
  -> Player_role VARCHAR(25),
  -> Total_Runs INT NOT NULL,
  -> Total_Wickets INT NOT NULL,
  -> PRIMARY KEY(Player_Rank)
  -> );
Query OK, 0 rows affected (0.03 sec)

mysql>
```

- Inserting values into database

```

Windows PowerShell
mysql> INSERT INTO CricketRanking VALUES ('Rohit',2,'Right-handed','Batsmen',8000,2);
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO CricketRanking VALUES ('Shubman',3,'Right-handed','Batsmen',3000,0);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO CricketRanking VALUES ('Virat',1,'Right-handed','Batsmen',10000,5);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO CricketRanking VALUES ('Surya',4,'Right-handed','Batsmen',6000,0);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO CricketRanking VALUES ('Hardhik',5,'Right-handed','All-Rounder',4000,20);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO CricketRanking VALUES ('Jedeja',6,'Left-handed','All-Rounder',6000,30);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO CricketRanking VALUES ('Aswin',7,'Right-handed','All-Rounder',5000,35);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO CricketRanking VALUES ('Siraj',8,'Right-handed','Bowler',900,75);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO CricketRanking VALUES ('Shami',9,'Right-handed','Bowler',950,115);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO CricketRanking VALUES ('Chahal',10,'Left-handed','Bowler',200,155);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO CricketRanking VALUES ('Shardul',11,'Right-handed','Bowler',1000,195);
Query OK, 1 row affected (0.01 sec)

```

- Visualizing the Database

```

Windows PowerShell
mysql> select * from CricketRanking;
+-----+-----+-----+-----+-----+-----+
| Player_Name | Player_Rank | Player_type | Player_role | Total_Runs | Total_Wickets |
+-----+-----+-----+-----+-----+-----+
| Virat      | 1 | Right-handed | Batsmen | 10000 | 5 |
| Rohit      | 2 | Right-handed | Batsmen | 8000  | 2 |
| Shubman    | 3 | Right-handed | Batsmen | 3000  | 0 |
| Surya      | 4 | Right-handed | Batsmen | 6000  | 0 |
| Hardhik    | 5 | Right-handed | All-Rounder | 4000 | 20 |
| Jedeja     | 6 | Left-handed  | All-Rounder | 6000 | 30 |
| Aswin      | 7 | Right-handed | All-Rounder | 5000 | 35 |
| Siraj      | 8 | Right-handed | Bowler | 900   | 75 |
| Shami      | 9 | Right-handed | Bowler | 950   | 115 |
| Chahal     | 10 | Left-handed  | Bowler | 200   | 155 |
| Shardul    | 11 | Right-handed | Bowler | 1000  | 195 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)

mysql> select Player_Name,Player_role,Total_Runs,Total_Wickets from CricketRankings where Player_Rank = 4;
ERROR 1146 (42S02): Table 'dhanush-db.cricketrankings' doesn't exist
mysql> select Player_Name,Player_role,Total_Runs,Total_Wickets from CricketRanking where Player_Rank = 4;
+-----+-----+-----+-----+
| Player_Name | Player_role | Total_Runs | Total_Wickets |
+-----+-----+-----+-----+
| Surya      | Batsmen    | 6000      | 0             |
+-----+-----+-----+-----+
1 row in set (0.01 sec)

```

- Work-Bench Output:

The screenshot shows a database workbench interface with a query window at the top containing the SQL statement: `SELECT * FROM dhanush_db.cricketranking`. Below the query window, a table titled "Result Grid" displays the query results. The table has six columns: Player_Name, Player_Rank, Player_type, Player_role, Total_Runs, and Total_Wickets. The results list 11 players, with Virat at rank 1 and Shardul at rank 11. The last row of the table contains the word "NULL" in each column.

Player_Name	Player_Rank	Player_type	Player_role	Total_Runs	Total_Wickets
Virat	1	Right-handed	Batsmen	10000	5
Rohit	2	Right-handed	Batsmen	8000	2
Shubman	3	Right-handed	Batsmen	3000	0
Surya	4	Right-handed	Batsmen	6000	0
Hardik	5	Right-handed	All-Rounder	4000	20
Jadeja	6	Left-handed	All-Rounder	6000	30
Aswin	7	Right-handed	All-Rounder	5000	35
Siraj	8	Right-handed	Bowler	900	75
Shami	9	Right-handed	Bowler	950	115
Chahal	10	Left-handed	Bowler	200	155
Shardul	11	Right-handed	Bowler	1000	195
NULL	NULL	NULL	NULL	NULL	NULL

- **Connecting the Database with Java JDBC:**

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class main {
    public static void main(String[] args) {
        try {
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/dhanush_db","root","Anuprasad_19");

            Statement statement = conn.createStatement();

            ResultSet resultSet = statement.executeQuery("select * from CricketRanking");

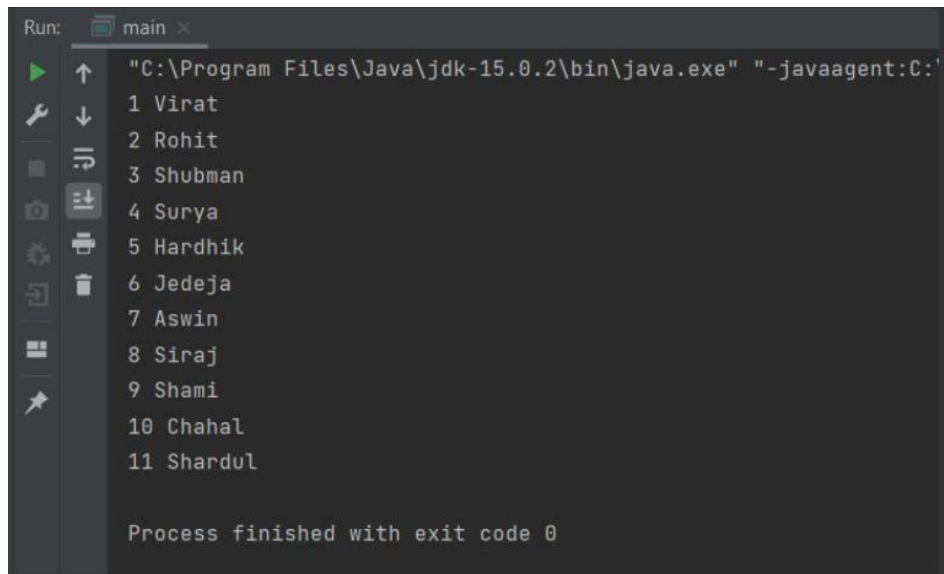
            while (resultSet.next()) {

                System.out.println(resultSet.getString("Player_Rank")+ " "
+resultSet.getString("Player_Name"));

            }
        }
    }
}
```

```
    catch (Exception e) {  
        e.printStackTrace();  
    }  
}  
}
```

OUTPUT :



```
Run: main x  
"C:\Program Files\Java\jdk-15.0.2\bin\java.exe" "-javaagent:C:'  
1 Virat  
2 Rohit  
3 Shubman  
4 Surya  
5 Hardhik  
6 Jedeja  
7 Aswin  
8 Siraj  
9 Shami  
10 Chahal  
11 Shardul  
  
Process finished with exit code 0
```