

VITAP UNIVERSITY, ANDHRA PRADESH

SMARTBRIDGE EXTERNSHIP

MODERN APPLICATION DEVELOPMENT (Java Spring Boot)

ASSIGNMENT-3

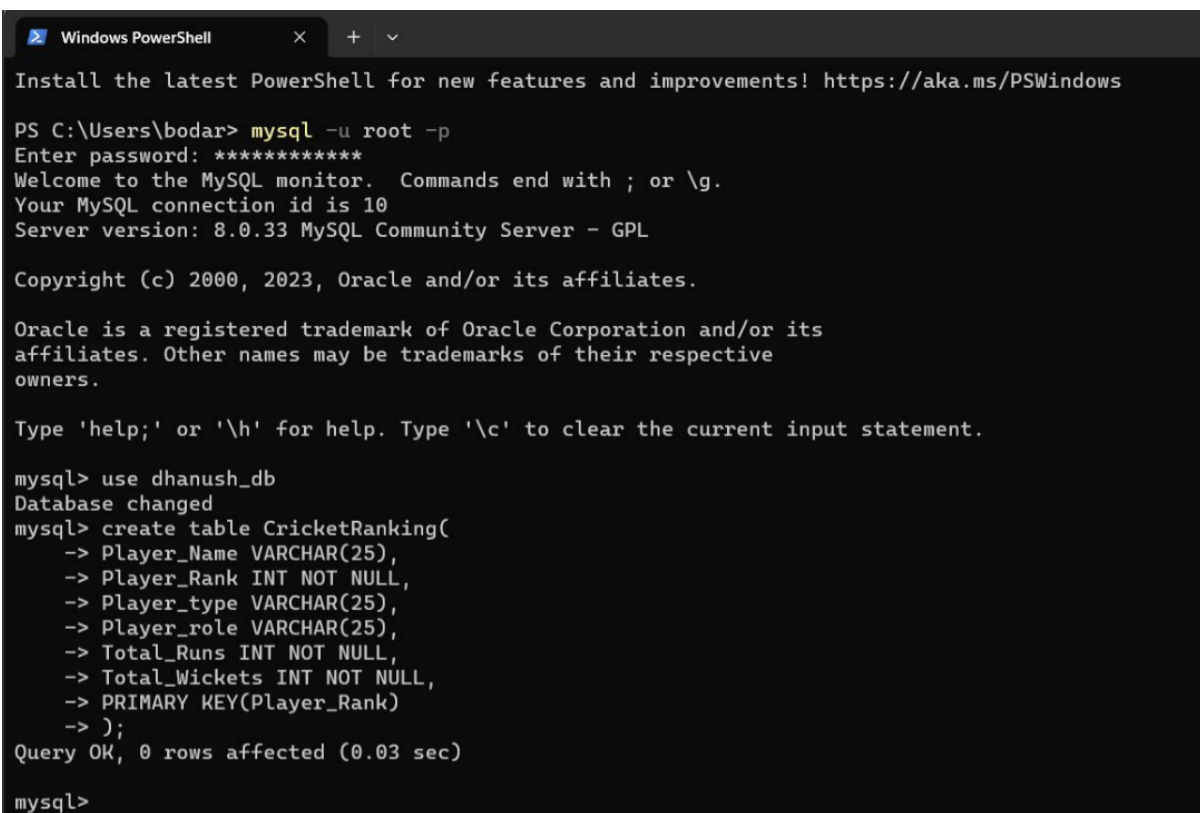
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Date: 05-06-2023

Reg. No: 20MIS7058

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)
```

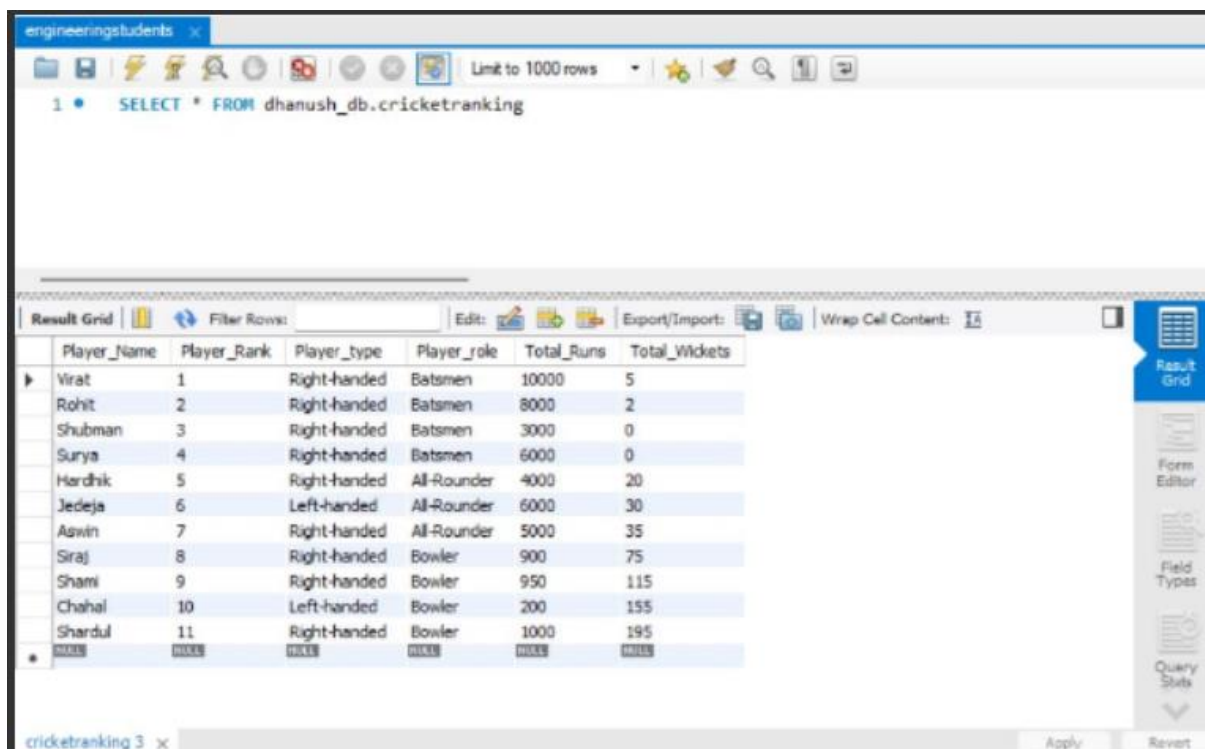
Visualizing the Database

```
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. At the top, a SQL query is entered: `1 * SELECT * FROM dhanush_db.cricketranking`. Below the query, a table of results is displayed. The table has columns: Player_Name, Player_Rank, Player_type, Player_role, Total_Runs, and Total_Wickets. The results list 11 players, with the last row showing null values. On the right side, there are buttons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'. At the bottom right, there are 'Apply' and 'Revert' buttons.

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
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
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();
```

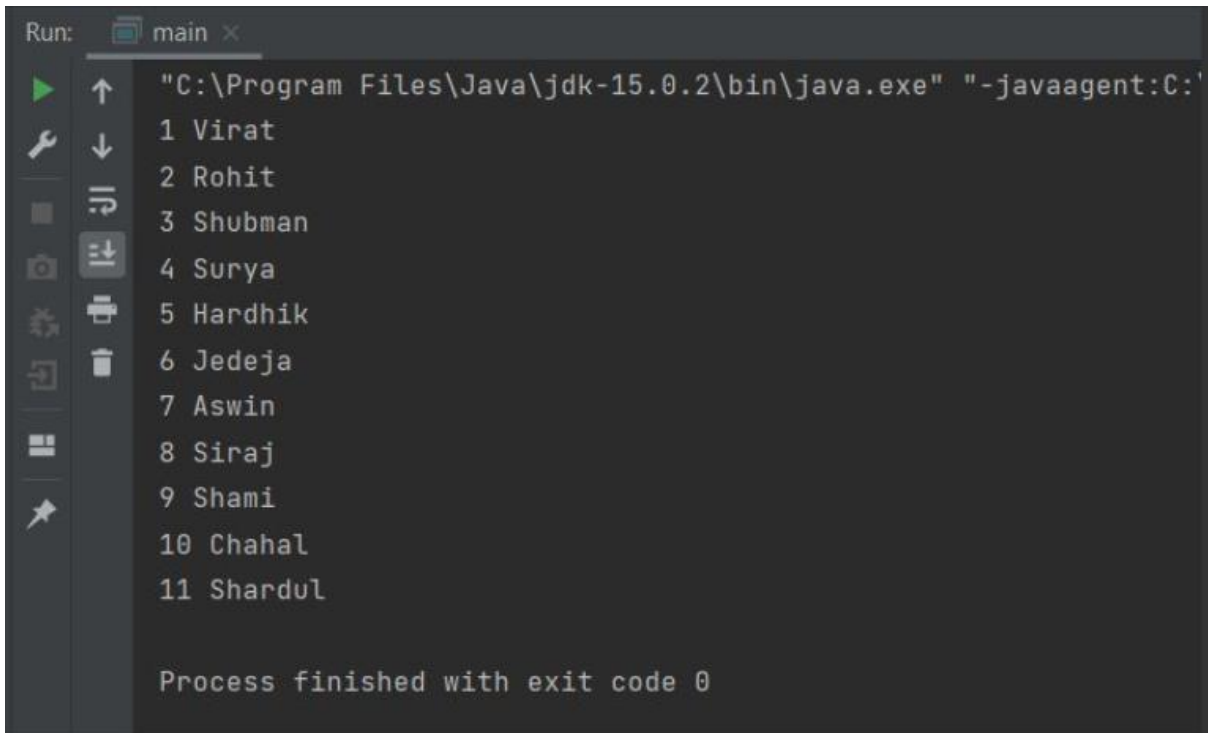
```
            ResultSet resultSet = statement.executeQuery("select * from CricketRanking");
```

```
            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
```