

VITAP UNIVERSITY, ANDHRA PRADESH  
SMARTBRIDGE EXTERNSHIP  
MODERN APPLICATION DEVELOPMENT (Java Spring Boot)  
ASSIGNMENT-3

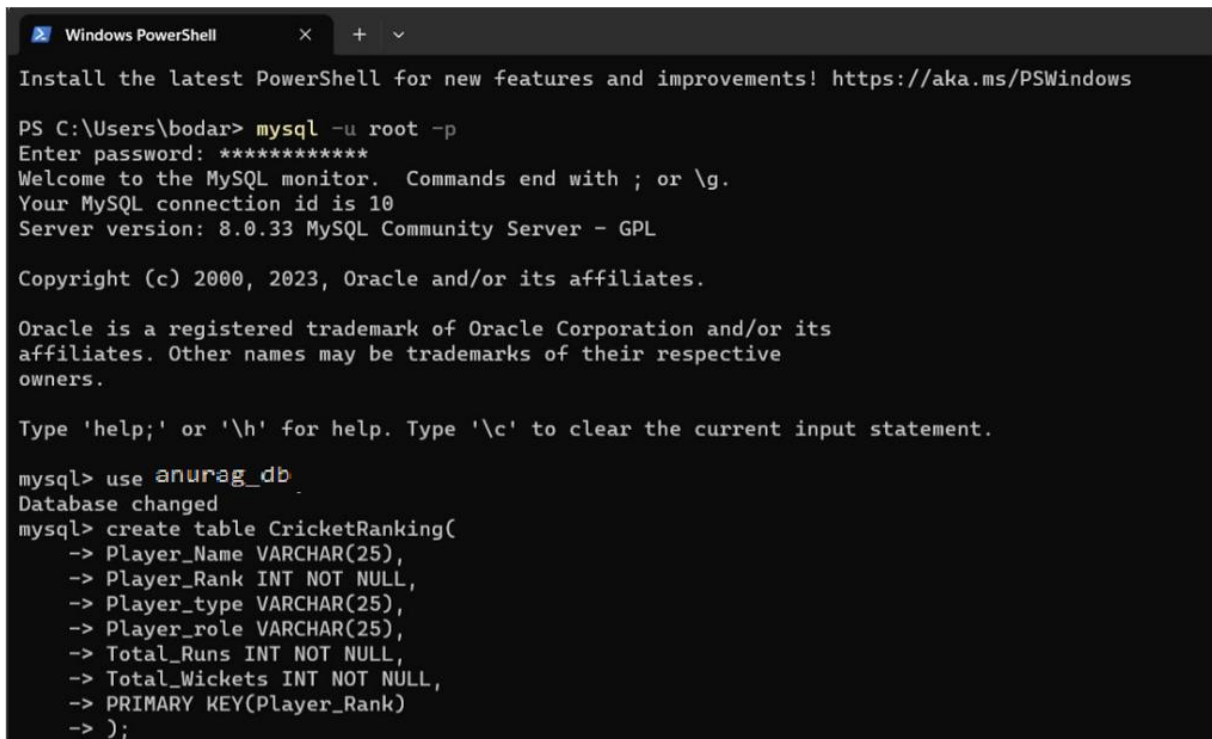
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Date: 05-06-2023

Reg. No: 20BCE7353

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\bodan> 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 anurag_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)
-> );
```

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:

engineeringstudents

Limit to 1000 rows

1 • SELECT \* FROM dhanush\_db.cricketranking

Result Grid

	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
*	NA	NA	NA	NA	NA	NA

cricketranking 3 x

Apply Revert

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");
```

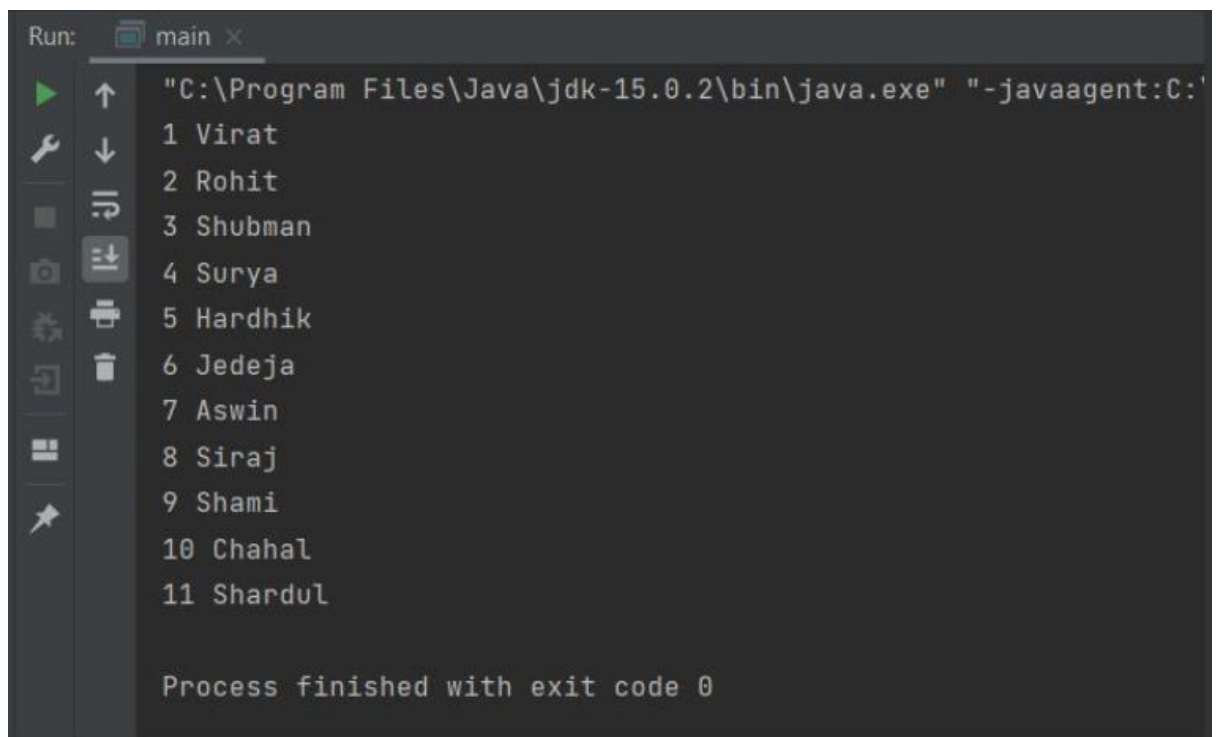
```
        while (resultSet.next()) {
```

```
            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 Jedgeja  
7 Aswin  
8 Siraj  
9 Shami  
10 Chahal  
11 Shardul  
  
Process finished with exit code 0
```