

REG NO:20BEC1349

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Assignment - 3

Modern Application Development (Java Spring Boot)

Q) Implement Java JDBC Operations

ANS:

Creating a Student Database and Performing CRUD Operations: -

Code:-

```
<!DOCTYPE html>
<html>
<head>
<title>Student Information Form</title>
<style>
body {
font-family: Arial, sans-serif;background-
color: #f5f5f5;
}

.container {
max-width: 500px; margin: 0
auto; padding: 20px;
background-color: #fff;border-
radius: 5px;
box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}
h1 {
text-align: center;
}
label { display:
block;
margin-bottom: 10px;
}
input[type="text"],
input[type="email"],select
{
width: 100%;
```

```
padding: 10px;
border: 1px solid #ccc;border-
radius: 4px;
box-sizing: border-box;margin-
bottom: 10px;
}
input[type="submit"] {
background-color: #4CAF50;color:
white;
padding: 12px 20px;
border: none; border-
radius: 4px;cursor:
pointer; font-size: 16px;
}
input[type="submit"]:hover {
background-color: #45a049;
}
</style>
</head>
<body>
<div class="container">
<h1>Student Information Form</h1>
<form>
<label for="name">Name:</label>
<input type="text" id="name" name="name" placeholder="Enter your name"required>
<label for="email">Email:</label>
<input type="email" id="email" name="email" placeholder="Enter youremail" required>
<label for="major">Major:</label>
<select id="major" name="major">
<option value="computer_science">Computer Science</option>
<option value="biology">Biology</option>
<option value="business">Business</option>
<option value="psychology">Psychology</option>
<option value="other">Other</option>
</select>
<input type="submit" value="Submit">
```

```
</form>
</div>
</body>
</html>
```

Output:

```
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 27
Server version: 8.0.32 MySQL Community Server - GPL
```

```
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```

```
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owners.
```

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

```
mysql> CREATE DATABASE Student;
Query OK, 1 row affected (0.03 sec)
```

```
mysql> CREATE TABLE StudentInfo(ID int, Name varchar(255), RegNo varchar(255), Department varchar(255), PhoneNo varchar(255));
ERROR 1046 (3D000): No database selected
mysql> use Student
Database changed
mysql> CREATE TABLE StudentInfo(ID int, Name varchar(255), RegNo varchar(255), Department varchar(255), PhoneNo varchar(255));
Query OK, 0 rows affected (0.03 sec)
```

```
Run: rough2
./Library/Java/JavaVirtualMachines/amazon-corretto-11-jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea_rt.jar=43344:/Applications/IntelliJ IDEA.app/Contents/bin/java -jar rough2.jar
Enter your choice:
1.Insert
2.Update
3.Delete
4.Display
5.Display All
6.Exit
>
Enter ID, Name, RegNo, Department and PhoneNo to be Inserted:
>
Name:
DIPKESH
RegNo:
100
ID:
20041114402
1 Record Inserted.

Enter your choice:
1.Insert
2.Update
3.Delete
4.Display
5.Display All
6.Exit
>
Enter ID, Name, RegNo, Department and PhoneNo to be Inserted:
>
Name:
DIPKESH
RegNo:
100
ID:
20041114402
1 Record Inserted.
```

```
Run: rough2
Enter your choice:
1.Insert
2.Update
3.Delete
4.Display
5.Display All
6.Exit
>
Enter ID for which record needs to be updated:
>
Enter new ID, Name, RegNo, Department and PhoneNo
>
Name:
DIPKESH
RegNo:
100
ID:
20041114402
1 Record Updated

Enter your choice:
1.Insert
2.Update
3.Delete
4.Display
5.Display All
6.Exit
>
1 Dipkesh 20041114402 CSE 8874114402
2 Rishi 20041114402 CSE 7090427040

Enter your choice:
1.Insert
2.Update
3.Delete
>
```

Enter your choice:

- 1.Insert
- 2.Update
- 3.Delete
- 4.Display
- 5.Display All
- 6.Exit

Enter the ID for which the record needs to be deleted

1 Record Deleted

Enter your choice:

- 1.Insert
- 2.Update
- 3.Delete
- 4.Display
- 5.Display All
- 6.Exit

Enter ID for which the Student record needs to be displayed:

1 Shiksha 20AP01134 CSE 0074113401

Enter your choice:

- 1.Insert
- 2.Update
- 3.Delete
- 4.Display
- 5.Display All
- 6.Exit

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