

Zeal College of Engineering and Research

Subject: DBMSL

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Class: SE

Div: B

Batch: B1

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Group A: Practical No: 9

Program Statement: Database Connectivity: Write a program to implement MySQL/Oracle database connectivity with any front end language to implement Database navigation operations (add, delete, edit etc.)

Code:

```
package connectivity;

import java.sql.*;

import java.util.Scanner;

public class Demo {

    public static void main(String args[]){

        Connection c = null;

        Statement sm = null;

        String query;

        String USER = "root";

        String PASS = "1234";

        String JDBC_DRIVER = "com.mysql.cj.jdbc.Driver";

        String DB_URL = "jdbc:mysql://localhost:3306/classroom";

        try{

            Class.forName(JDBC_DRIVER);

            c=DriverManager.getConnection(DB_URL,USER,PASS);

            sm = c.createStatement();

            int ch;
```

```

String sql;

Scanner s = new Scanner(System.in);

do {

    System.out.println("Enter Choice\n 1.Insert \n 2.Select \n
3.Update \n 4.Delete \n 5.Exit");

    ch=s.nextInt();

    switch (ch) {

        case 1:

            sql ="Insert into Student values (1, 'Jenil')";

            sm.executeUpdate(sql);

            System.out.println("Record is Inserted");

            break;

        case 2:

            sql ="Select * FROM Student";

            ResultSet rs = sm.executeQuery(sql);

            while(rs.next()){

                int rno1 = rs.getInt("Stud_ID");

                String name1 = rs.getString("Stud_Name");

                System.out.println("Stud_ID:" + rno1);

                System.out.println("Stud_Name:" + name1);

            }

            break;

        case 3:

            sql ="UPDATE Student set Stud_Name='Manas' where
Stud_ID= 1";

            sm.executeUpdate(sql);

            System.out.println("Record is Updated");

            break;

        case 4:

```

```

        sql ="delete from studENT where Stud_ID = 1";

        sm.executeUpdate(sql);

        System.out.println("Record is Deleted");

        break;

    }

    }while(ch<5);

}

catch(Exception e) {

    e.printStackTrace();

}

}

}

```

Output (Screenshot):

```

Problems @ Javadoc Declaration Console X
<terminated> Demo [Java Application] C:\Program Files\Java\jdk-23\bin\javaw.exe (23 Oct 2024, 12:14:58 pm – 12:59:12 pm) [pid: 1552]
Enter Choice
1.Insert
2.Select
3.Update
4.Delete
5.Exit
1
Record is Inserted
Enter Choice
1.Insert
2.Select
3.Update
4.Delete
5.Exit
2
Stud_ID:1
Stud_Name:Jenil
Enter Choice
1.Insert
2.Select
3.Update
4.Delete
5.Exit
3
Record is Updated
Enter Choice
1.Insert
2.Select
3.Update
4.Delete
5.Exit
4
Record is Deleted
Enter Choice
1.Insert
2.Select
3.Update
4.Delete
5.Exit
5
|

```

```
mysql> create database classroom;
Query OK, 1 row affected (0.16 sec)
mysql> use classroom;
Database changed
mysql> CREATE TABLE Student( Stud_ID INT PRIMARY KEY, Stud_Name
VARCHAR(255));
Query OK, 0 rows affected (0.76 sec)
```

-- After code execution

```
mysql> SELECT * FROM Student;
+-----+-----+
| Stud_ID | Stud_Name |
+-----+-----+
|      1 | Jenil    |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM Student;
+-----+-----+
| Stud_ID | Stud_Name |
+-----+-----+
|      1 | Manas     |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM Student;
Empty set (0.00 sec)
```