

```
Command Prompt - mysql -u root -p

C:\Users\shivs>mysql -u root -p
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.41 MySQL Community Server - GPL

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owners.

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

mysql> create database practical;
Query OK, 1 row affected (0.02 sec)

mysql> use practical;
Database changed
mysql> CREATE TABLE IF NOT EXISTS Student (
->     id INT PRIMARY KEY,
->     roll_no INT,
->     first_name VARCHAR(50),
->     last_name VARCHAR(50),
->     age INT,
->     city VARCHAR(50)
-> );
Query OK, 0 rows affected (0.29 sec)
```

```
mysql> -- Insert sample records
mysql> INSERT INTO Student(id, roll_no, first_name, last_name, age, city)
-> VALUES
-> (1, 1001, 'Ravi', 'Patil', 20, 'Mumbai'),
-> (2, 1002, 'Sneha', 'Shah', 19, 'Pune'),
-> (3, 1003, 'Amit', 'Deshmukh', 21, 'Nagpur'),
-> (4, 1004, 'Priya', 'Kulkarni', 18, 'Nashik'),
-> (5, 1005, 'Rahul', 'Shinde', 22, 'Aurangabad');
Query OK, 5 rows affected (0.06 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql>
```

```
1 package abc;
2
3 import java.sql.*;
4 import java.util.Scanner;
5
6 public class DeptDB {
7     public static void main(String[] args) {
8         Scanner input = new Scanner(System.in);
9         Connection c = null;
10        Statement sm = null;
11
12        try {
13            // Load JDBC driver (optional for newer versions)
```

```

14      Class.forName("com.mysql.cj.jdbc.Driver");
15
16      // Connect to the database
17      c = DriverManager.getConnection(
18          "jdbc:mysql://localhost:3306/practical", "root", "1234");
19
20      sm = c.createStatement();
21      System.out.println("Database Connected...");
22
23      int ch;
24      do {
25          System.out.println("Enter Choice:\n1 - Insert\n2 - Select\n3 -
Update\n4 - Delete\n5 - Exit");
26          ch = input.nextInt();
27          input.nextLine(); // consume newline
28
29          switch (ch) {
30              case 1:
31                  String sqlInsert = "INSERT INTO Student VALUES (8, 1010,
'Pooja', 'Deore', 18, 'Nashik')";
32                  sm.executeUpdate(sqlInsert);
33                  System.out.println("Record is Inserted...");
34                  break;
35              case 2:
36
37                  String sqlSelect = "SELECT first_name, last_name, age, city
FROM Student";
38
39                  ResultSet rs = sm.executeQuery(sqlSelect);
40                  while (rs.next()) {
41                      String fname = rs.getString("first_name");
42                      String lname = rs.getString("last_name");
43                      int age = rs.getInt("age");
44                      String city = rs.getString("city");
45
46                      System.out.println("First Name: " + fname);
47                      System.out.println("Last Name: " + lname);
48                      System.out.println("Age: " + age);
49                      System.out.println("City: " + city);
50                      System.out.println("-----");
51                  }
52                  break;
53
54              case 3:
55                  String sqlUpdate = "UPDATE Student SET first_name='Manoj'
WHERE id=5";
56
57                  sm.executeUpdate(sqlUpdate);
58                  System.out.println("Record is Updated...");
59                  break;
60              case 4:

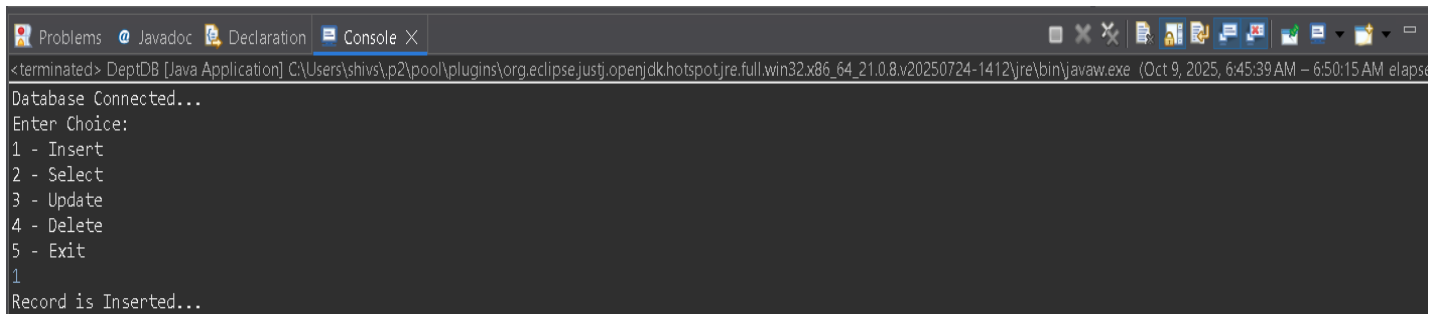
```

```

60         String sqlDelete = "DELETE FROM Student WHERE id=8"; //
example
61         sm.executeUpdate(sqlDelete);
62         System.out.println("Record is Deleted...");
63         break;
64     case 5:
65
66         System.out.println("Exiting...");
67         break;
68     default:
69
70         System.out.println("Invalid Choice!");
71     }
72     } while (ch != 5);
73
74     } catch (Exception e) {
75         e.printStackTrace();
76     } finally {
77         try {
78             if (sm != null) sm.close();
79             if (c != null) c.close();
80             input.close();
81         } catch (SQLException e) {
82             e.printStackTrace();
83         }
84     }
85 }
86 }
87

```

Output:



```

Problems Javadoc Declaration Console X
<terminated> DeptDB [Java Application] C:\Users\shivs\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.8.v20250724-1412\jre\bin\javaw.exe (Oct 9, 2025, 6:45:39 AM - 6:50:15 AM elapsed)
Database Connected...
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
First Name: Ravi
Last Name: Patil
Age: 20
City: Mumbai
-----
First Name: Sneha
Last Name: Shah
Age: 19
City: Pune
-----
First Name: Amit
Last Name: Deshmukh
Age: 21
City: Nagpur
-----
First Name: Priya
Last Name: Kulkarni
Age: 18
City: Nashik
-----
First Name: Rahul
Last Name: Shinde
Age: 22
City: Aurangabad
-----
First Name: Pooja
Last Name: Deore
Age: 18
City: Nashik
-----

```

```

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
Exiting...

```

```

mysql> select * from Student;
+-----+-----+-----+-----+-----+-----+
| id | roll_no | first_name | last_name | age | city |
+-----+-----+-----+-----+-----+-----+
| 1 | 1001 | Ravi | Patil | 20 | Mumbai |
| 2 | 1002 | Sneha | Shah | 19 | Pune |
| 3 | 1003 | Amit | Deshmukh | 21 | Nagpur |
| 4 | 1004 | Priya | Kulkarni | 18 | Nashik |
| 5 | 1005 | Manoj | Shinde | 22 | Aurangabad |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.02 sec)

```