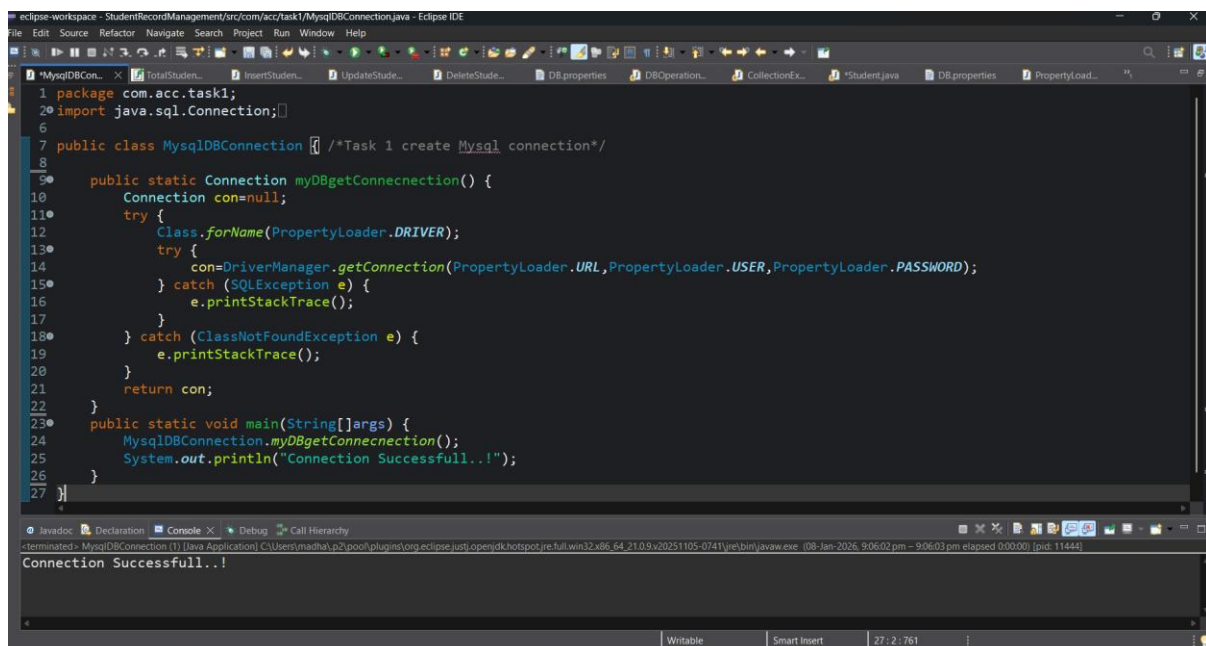


Task 1: Connect to Mysql Database

In this task I have created one class **MysqldbConnection** in which i created **myDBgetConnection()** method. In this methos I write Database Connection code as following.

1. Created **Connection** con reference variable
2. **Rrgistered Driver** using **DriverManager.getConnection()** method and pass the url,username,password
3. Call the **myDBgetConnection()** method in main method
4. Run the program
5. Output- printed message **“Connection successful..!”**.



```
1 package com.acc.task1;
2 import java.sql.Connection;
3
4
5
6
7 public class MysqldbConnection /*Task 1 create Mysql connection*/
8
9     public static Connection myDBgetConnection() {
10         Connection con=null;
11         try {
12             Class.forName(PropertyLoader.DRIVER);
13             try {
14                 con=DriverManager.getConnection(PropertyLoader.URL,PropertyLoader.USER,PropertyLoader.PASSWORD);
15             } catch (SQLException e) {
16                 e.printStackTrace();
17             }
18         } catch (ClassNotFoundException e) {
19             e.printStackTrace();
20         }
21         return con;
22     }
23     public static void main(String[]args) {
24         MysqldbConnection.myDBgetConnection();
25         System.out.println("Connection Successful..!");
26     }
27 }
```

Connection Successful..!

Task 2: Display All Students

In this task I have Display all the record from database using “Select Query” through java application. I created one class **TotalStudent**, in which I created **displayAllStudent()** method. In this method I write the logic for printing Student records from database.

1. Created connection by calling method **myDBgetConnection()** which contains connection code.
2. Used **Statement Interface** for creating statement
3. execute the query using **executeQuery();**
4. stored record in **resultSet rs**
5. Retrieve records from **rs** using **getInt/getString** method and stored in **object** of type **TotalStudent**.
6. Created the reference of **List<Total Student> stu** and created **Object of ArrayList** --(Used Generic Collection)
7. Stored the **TotalStudent type object** into **ArrayList stu** using **add()** method of collection.
8. closed connection using **close()** method.
9. Returned **ArrayList stu**.
10. Call **displayAllStudent()** in main method.
11. Print record from **ArrayList stu** using **Inhance for Loop**

The screenshot shows the Eclipse IDE with the **TotalStudent.java** file open. The code defines a static method **displayAllStudents()** that connects to a database, executes a **SELECT * FROM Students** query, and returns a **List<TotalStudent>** containing two students: Madhavi (ID: 1, Age: 20, Marks: 82) and Anushka (ID: 2, Age: 15, Marks: 95). The IDE also shows a console window with the output of the program, which displays the total number of students and a table of their details.

```
15 int age;
16 int marks;
17 public static List<TotalStudent> displayAllStudents() {
18     Connection con=null;
19     con=MySQLDBConnection.myDBgetConnection();/* call method having create connection code */
20     Statement stmt=null;
21     ResultSet rs=null;
22     List<TotalStudent> stu=new ArrayList<TotalStudent>(); /* List reference stu points to ArrayList*/
23     try {
24         stmt=con.createStatement();
25         rs=stmt.executeQuery("select * from Students");
26         /*stores result of select query into ResultSet rs*/
27         while(rs.next()) {
28             stu.add(new TotalStudent(rs.getInt("id"),rs.getString("name"),rs.getInt("age"),rs.getInt("marks")));
29             /* add the object into ArrayList having reference stu*/
30         }
31     } catch (SQLException e) {
32         e.printStackTrace();
33     }
34     return stu;
35 }
```

Output:

```
<terminated> TotalStudent (1) [Java Application] C:\Users\madha\p7\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64-21.0.9.v20251105-0741\jre\bin\javaw.exe (08-Jan-2026, 9:16:53 pm - 9:16:54 pm elapsed 00:00:01) [pid: 12345]
```

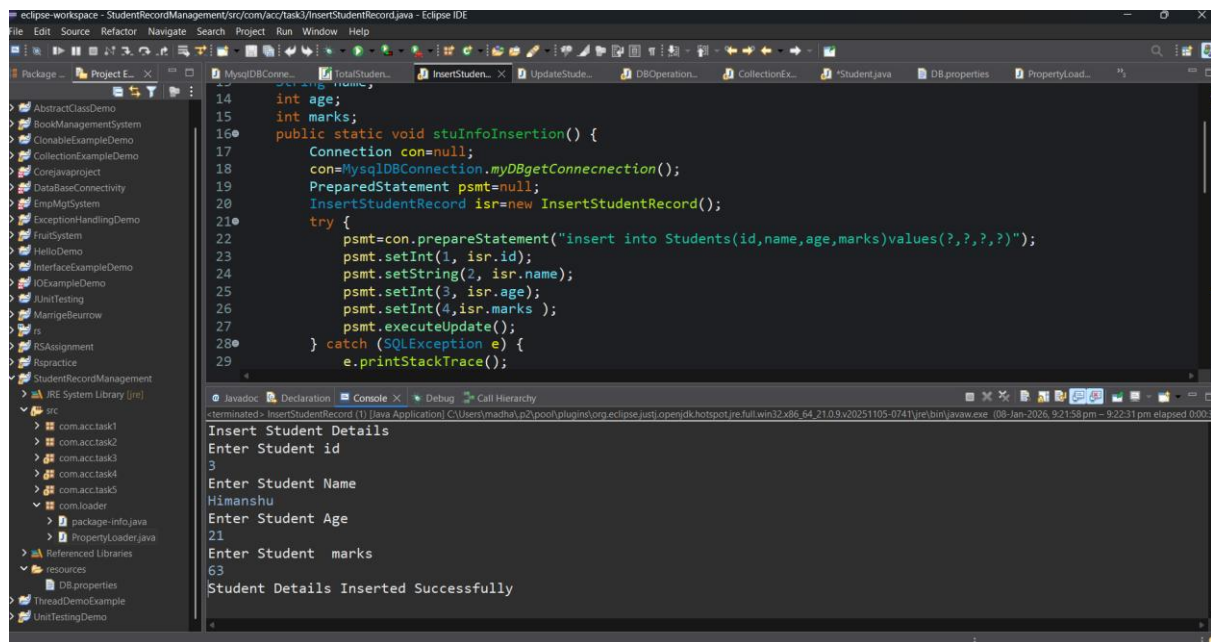
ID	NAME	AGE	MARKS
1	Madhavi	20	82
2	Anushka	15	95

Task 3: Insert Student Record

In this task I have insert the student Details into the database. through the java application

Using “insert Query”.I created one class **InsertStudentRecord** in this class I created one method **stuInfoInsertion()** containing the logic of Inert record into database as follow.

- 1.Created connection by calling method **myDBgetConnection()** which contains connection code.
- 2.create statement using **PreparedStatement psmt**
- 3.call **preparedStatement()** and pass insert query as argument.
- 4.take value from user using **Scanner** object
- 5.stored that value using **setInt()** method into **psmt** and pass to insert query .
- 6.execute the statement using **executeUpdate()** .
7. closed connection using **close()** method.
- 8.call **stuInfoInsertion()** in main method and print Insetion successfull message.



The screenshot displays the Eclipse IDE environment. The main editor window shows the `InsertStudentRecord.java` file with the following code:

```
14 int age;
15 int marks;
16 public static void stuInfoInsertion() {
17     Connection con=null;
18     con=MySQLDBConnection.myDBgetConneconnection();
19     PreparedStatement psmt=null;
20     InsertStudentRecord isr=new InsertStudentRecord();
21     try {
22         psmt=con.prepareStatement("insert into Students(id,name,age,marks)values(?,?,?,?)");
23         psmt.setInt(1, isr.id);
24         psmt.setString(2, isr.name);
25         psmt.setInt(3, isr.age);
26         psmt.setInt(4, isr.marks );
27         psmt.executeUpdate();
28     } catch (SQLException e) {
29         e.printStackTrace();
30     }
31 }
```

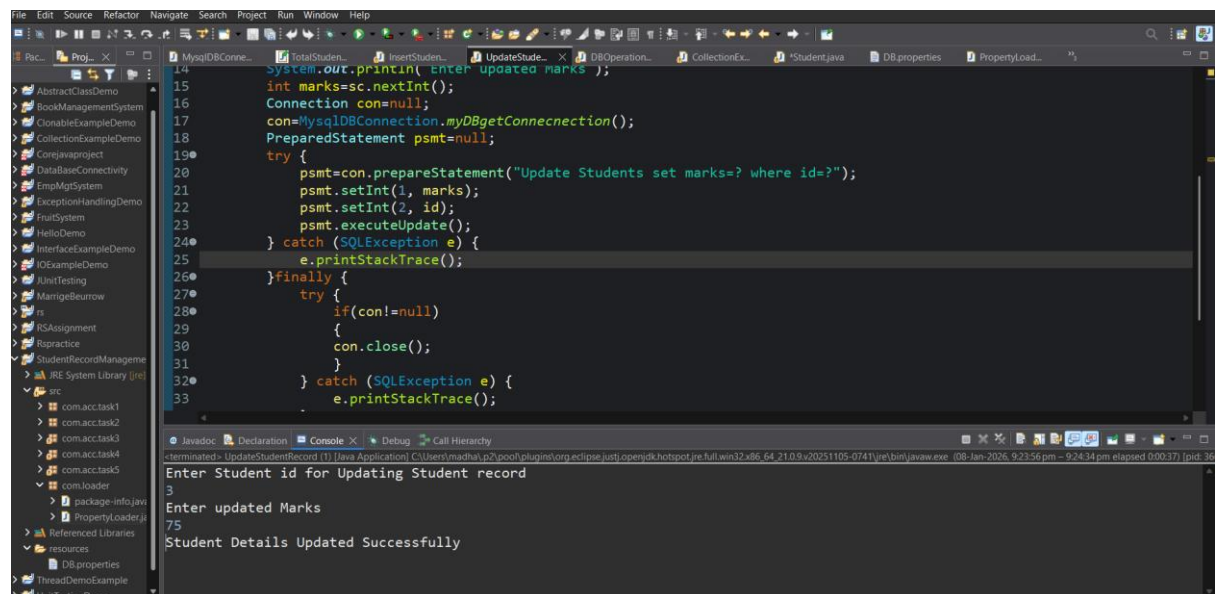
The console window at the bottom shows the execution output:

```
terminated> InsertStudentRecord (1) [Java Application] C:\Users\madha1\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.21.0.9\20251105-0741\jre\bin\javaw.exe (08-Jan-2026, 9:21:58 pm - 9:22:31 pm elapsed 0:00:33)
Insert Student Details
Enter Student id
3
Enter Student Name
Himanshu
Enter Student Age
21
Enter Student marks
63
Student Details Inserted Successfully
```

Task 4: Update Student Marks

In this task I have update the student **marks** by student **id** using “update query” through java application. I have created one class **UpdateStudentRecord** in which I created **stuInfoupdation()** method containing logic for updating record of database as follow.

- 1.Created connection by calling method **myDBgetConnection()** which contains connection code.
- 2.create statement using **PreparedStatement psmt**
- 3.take value of id from user using **Scanner** object
- 4.call **preparedStatement()** and pass update query as argument.
- 5.execute the statement using **executeUpdate()** .
6. closed connection using **close()** method.
- 8.call **stuInfoupdation()** in main method and print updation successfull message.



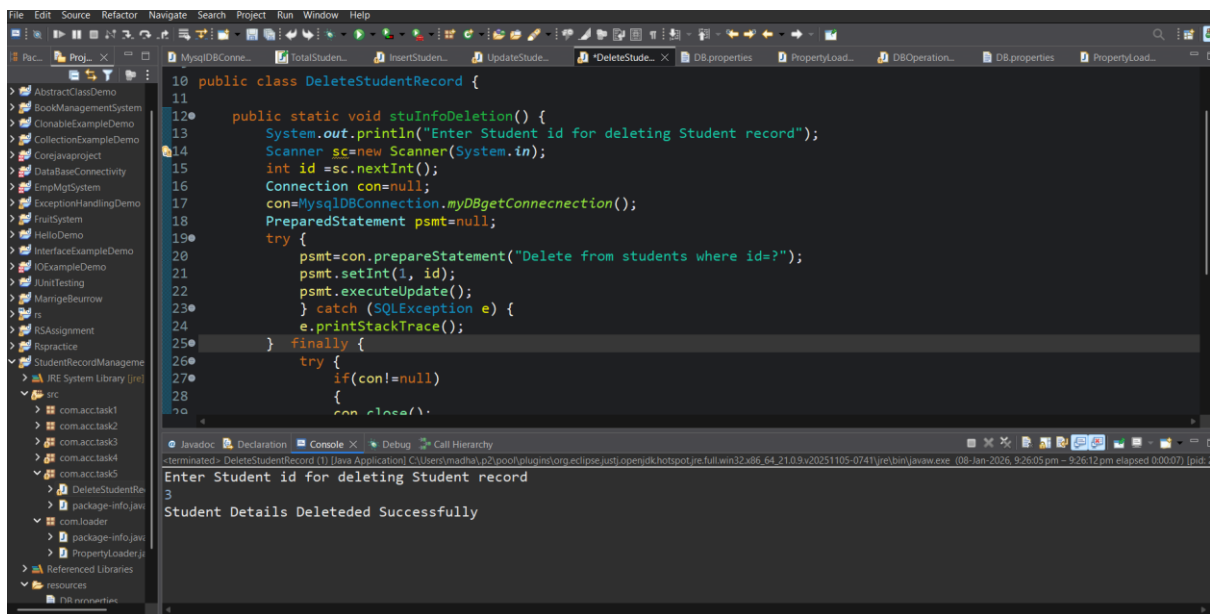
The screenshot displays an IDE with a Java project. The main editor shows the `UpdateStudentRecord` class with the following code:

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```

Task 5: Delete Student Record

In this task I have delete the student record by student **id** using “delete query” through java application. I have created one class **DeleteStudentRecord** in which I created **stuInfoDeletion()** method containing logic for deleting record from database as follow.

- 1.Created connection by calling method **myDBgetConnection()** which contains connection code.
- 2.create statement using **PreparedStatement psmt**
- 3.take value of id from user using **Scanner** object
- 4.call **preparedStatement()** and pass delete query as argument.
- 5.execute the statement using **executeUpdate()** .
6. closed connection using **close()** method.
- 8.call **stuInfoDeletion()** in main method and print updation successfull message.



```
10 public class DeleteStudentRecord {
11
12     public static void stuInfoDeletion() {
13         System.out.println("Enter Student id for deleting Student record");
14         Scanner sc=new Scanner(System.in);
15         int id=sc.nextInt();
16         Connection con=null;
17         con=MySQLDBConnection.myDBgetConnection();
18         PreparedStatement psmt=null;
19         try {
20             psmt=con.prepareStatement("Delete from students where id=?");
21             psmt.setInt(1, id);
22             psmt.executeUpdate();
23         } catch (SQLException e) {
24             e.printStackTrace();
25         } finally {
26             try {
27                 if(con!=null)
28                     con.close();
29             }
30         }
31     }
32 }

Enter Student id for deleting Student record
3
Student Details Deleted Successfully
```