
 Marwadi University Marwadi Chandarana Group		Marwadi University Faculty of Technology Department of Information and Communication Technology	
Subject: Advanced Java (01CT1623)		Aim: WAP that will take firstName, surName, email from user. Store that data into DB and display data from DB. (JDBC)	
Experiment No:- 02	Date:- 30-01-2025	Enrollment No:- 92200133003	

Objective:- WAP that will take firstName, surName, email from user. Store that data into DB and display data from DB. (JDBC)

Code :-

```
package org.example;

import java.sql.*;
import java.util.Scanner;

public class Main {

    public static void Insert(Statement statement) {
        Scanner scanner = new Scanner(System.in);
        int no_of_rows;

        System.out.print("Enter The Number of Rows You Have to Insert :- ");
        no_of_rows = scanner.nextInt();
        scanner.nextLine(); // Consume the newline character

        // Define the attributes (column names)
        String[] attribute = {"Username", "Email", "Enrollment", "Department", "Password"};
        String[][] data = new String[no_of_rows][5]; // Array to store user input


        // Taking user input
        for (int i = 0; i < no_of_rows; i++) {
            System.out.println("Enter the Details for User - " + (i + 1));
            for (int j = 0; j < 5; j++) {
                System.out.print("Enter the " + attribute[j] + " :- ");
                data[i][j] = scanner.nextLine();
            }
        }

        System.out.println("_____")
        ;

        // Construct SQL INSERT query
        StringBuilder insertQuery = new StringBuilder("INSERT INTO `student`(`username`, `email`, `enrollment`, `department`, `password`) VALUES ");

        for (int i = 0; i < no_of_rows; i++) {
            insertQuery.append("(")
                .append(data[i][0]).append(", ") // Username
                .append(data[i][1]).append(", ") // Email
                .append(data[i][2]).append(", ") // Enrollment
                .append(data[i][3]).append(", ") // Department
                .append(data[i][4]).append(")"); // Password

            if (i < no_of_rows - 1) {
                insertQuery.append(", "); // Append a comma for multiple inserts
            }
        }
    }
}
```

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```
insertQuery.append(";");
```

```
// Execute the query
```

```
try {
```

```
    statement.executeUpdate(insertQuery.toString());
```

```
    System.out.println("Data Inserted Successfully!\n");
```

```
    Display(statement); // Display the table contents after insertion
```

```
} catch (SQLException e) {
```

```
    System.out.println("Error executing query: " + e.getMessage());
```

```
}
```

```
}
```

```
public static void Display(Statement statement) throws SQLException {
```

```
    String fetch_query = "SELECT * FROM student";
```

```
    ResultSet resultSet = statement.executeQuery(fetch_query);
```

```
    System.out.println("\n----- Student Table Data -----");
```

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

```
        System.out.println("Username: " + resultSet.getString("username"));
```

```
        System.out.println("Email: " + resultSet.getString("email"));
```

```
        System.out.println("Enrollment: " + resultSet.getString("enrollment"));
```

```
        System.out.println("Department: " + resultSet.getString("department"));
```

```
        System.out.println("Password: " + resultSet.getString("password"));
```

```
        System.out.println("-----");
```

```
    }
```

```
}
```

```
public static void main(String[] args) {
```

```
    try {
```

```
        // Load MySQL JDBC Driver
```

```
        Class.forName("com.mysql.jdbc.Driver");
```

```
        // Establish Connection
```

```
        Connection connection =
```

```
DriverManager.getConnection("jdbc:mysql://localhost:3306/aj_practical", "root", "");
```

```
        Statement statement = connection.createStatement();
```

```
        // Call Insert function
```

```
        Insert(statement);
```

```
        // Close resources
```

```
        statement.close();
```

```
        connection.close();
```


```
    } catch (ClassNotFoundException | SQLException e) {
```

```
        throw new RuntimeException(e);
```

```
    }
```

```
}
```

```
}
```

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Output:-

```

C:\Users\prash\jdk\openjdk-23.0.1\bin\java.exe "-javaagent:D:\IntelliJ IDEA Community
Enter The Number of Rows You Have to Insert :- 1
Enter the Details for User - 1
Enter the Username :- Rajni
Enter the Email :- rajni@gmail.com
Enter the Enrollment :- 123
Enter the Department :- ICT
Enter the Password :- 99999

-----
Data Inserted Successfully!

----- Student Table Data -----
Username: Rajni
Email: rajni@gmail.com
Enrollment: 123
Department: ICT
Password: 99999
-----

```

	username	email	enrollment	department	password
<input type="checkbox"/> Edit Copy Delete	Rajni	rajni@gmail.com	123	ICT	99999
<input type="checkbox"/> Edit Copy Delete	Prashant Sarvaiya	prashant@gmail.com	92200133003	ICT	123456
<input type="checkbox"/> Edit Copy Delete	Utsav Savaliya	utsav@gmail.com	92200142001	CE	101010
<input type="checkbox"/> Edit Copy Delete	Neel Raiyani	neel@gmail.com	92310133019	ICT	555555