

// 31139 – Durvesh – DBMSLC2

// Sample Code

```
package mysqljava;

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

public class Main {

    public static void main(String[] args) throws ClassNotFoundException,
    SQLException {
        Statement stmt;
        Scanner scanner = new Scanner(System.in);
        ResultSet rs;
        String username, pass, url;
        Connection con;
        url = "jdbc:mysql://localhost:3306/c2";
        Class.forName("com.mysql.cj.jdbc.Driver");
        username = "root";
        pass = "mysql";
        con = DriverManager.getConnection(url, username, pass);
        stmt = con.createStatement();
        System.out.println("-----Welcome to Employee Database!-----
");
        int basechoice = 0, subchoice;
        while(basechoice!=5){
            System.out.println("1. View Database    2. Insert Record    3. Update
Records    4. Delete Records    5. Exit");
            basechoice = scanner.nextInt();
            switch (basechoice){
                case 1:
                    System.out.println("1. Show all    2. Show Selective");
                    subchoice = scanner.nextInt();
                    switch (subchoice){
                        case 1:
                            rs = stmt.executeQuery("SELECT * from employee");
                            while(rs.next()){
                                System.out.println(rs.getString(1)+" \t\t -
"+rs.getInt(2)+
                                " \t\t - "+rs.getString(4));
                                " \t\t - "+rs.getInt(3)+" \t\t -
                                " \t\t - "+rs.getString(4));
                            }
                            break;
                        case 2:
                            scanner.nextLine();
                            int whereflag=0;
                            System.out.println("Enter your where column");
                            String wherecolumn = scanner.nextLine();
                            if(wherecolumn.equals("name")||wherecolumn.equals("city")){
                                whereflag=1;
                            }
                            System.out.println("Enter your where condition e.g
>,=,<");
                            String wherecondition = scanner.nextLine();
                            System.out.println("Enter your where value");
                            String where = scanner.nextLine();
                            if(whereflag==1){
                                where = "\"" + where + "\"";
                            }
                            rs = stmt.executeQuery("SELECT * from employee WHERE
```

```

"+wherecolumn+wherecondition+where+";");
        while(rs.next()){
            System.out.println(rs.getString(1)+" \t\t -
"+rs.getInt(2)+
            " \t\t - "+rs.getInt(3)+" \t\t -
"+rs.getString(4));
        }
        break;
    }
    break;
case 2:
    scanner.nextLine();
    System.out.print("Enter Name: ");
    String employeename = scanner.nextLine();
    System.out.print("Enter EmployeeID: ");
    int id = scanner.nextInt();
    System.out.print("Enter Salary: ");
    int salary = scanner.nextInt();
    System.out.print("Enter City: ");
    scanner.nextLine();
    String city = scanner.nextLine();
    stmt.executeUpdate("INSERT INTO employee values
(\""+employeename+"\","+id+","+salary+"\","+city+"");");
    System.out.println("-----Entry inserted-----
");
    break;
case 3:
    scanner.nextLine();
    System.out.println("Enter Column to be updated");
    String updatecolumn = scanner.nextLine();
    int flag =0;
    if(updatecolumn.equals("name")||updatecolumn.equals("city")){
        flag=1;
    }
    System.out.println("1. Update all 2. Update Selective");
    subchoice = scanner.nextInt();
    switch (subchoice){
        case 1:
            scanner.nextLine();
            System.out.println("Enter new value of the column");
            String value = scanner.nextLine();
            if(flag==1){
                value = "\""+value+"\"";
            }
            stmt.executeUpdate("UPDATE employee SET
"+updatecolumn+"="+value+";");
            System.out.println("-----Values Updated-----
-----");
            break;
        case 2:
            scanner.nextLine();
            int whereflag=0;
            System.out.println("Enter your where column");
            String wherecolumn = scanner.nextLine();

            if(wherecolumn.equals("name")||wherecolumn.equals("city")){
                whereflag=1;
            }
            System.out.println("Enter your where condition e.g
>,<=");

            String wherecondition = scanner.nextLine();
            System.out.println("Enter your where value");
            String where = scanner.nextLine();
            if(whereflag==1){
                where = "\""+where+"\"";
            }
            System.out.println("Enter new value of the column");
            String newvalue = scanner.nextLine();

```



```
Assignment2 - Main.java
src > mysqljava > Main > main
Run: Main
"D:\Program Files\Java\jdk-12.0.1\bin\java.exe" "-javaagent:D:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.2.2\lib\idea
-----Welcome to Employee Database!-----
1. View Database  2. Insert Record  3. Update Records  4. Delete Records  5. Exit
1
1. Show all  2. Show Selective
1
John      - 3424      - 60000    - NYC
Jane      - 9809      - 70000    - NYC
Ram       - 1809      - 50000    - Pune
Sham      - 2340      - 55000    - Mumbai
1. View Database  2. Insert Record  3. Update Records  4. Delete Records  5. Exit
1
1. Show all  2. Show Selective
2
Enter your where column
salary
Enter your where condition e.g >,<=,<
>
Enter your where value
60000
John      - 3424      - 60000    - NYC
Jane      - 9809      - 70000    - NYC
1. View Database  2. Insert Record  3. Update Records  4. Delete Records  5. Exit
Enter Name:

```

```
Assignment2 - Main.java
src > mysqljava > Main > main
Run: Main
Jane      - 9809      - 70000    - NYC
1. View Database  2. Insert Record  3. Update Records  4. Delete Records  5. Exit
2
Enter Name: Anna
Enter EmployeeID: 6986
Enter Salary: 90000
Enter City: LA
-----Entry inserted-----
1. View Database  2. Insert Record  3. Update Records  4. Delete Records  5. Exit
1
1. Show all  2. Show Selective
1
John      - 3424      - 60000    - NYC
Jane      - 9809      - 70000    - NYC
Ram       - 1809      - 50000    - Pune
Sham      - 2340      - 55000    - Mumbai
Anna      - 6986      - 90000    - LA
1. View Database  2. Insert Record  3. Update Records  4. Delete Records  5. Exit
1
Enter Column to be updated
salary
1. Update all  2. Update Selective
2
Enter your where column

```

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help Assignment2 - Main.java
Assignment2 src > mysqljava Main main
Proj Main
Run Main
1. Update all 2. Update Selective
>
Enter your where column
city
Enter your where condition e.g >,<
>
Enter your where value
100000
Enter new value of the column
London
-----Values Updated-----
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
>
1. Show all 2. Show Selective
>
John - 3424 - 100000 - NYC
Jane - 9809 - 100000 - NYC
Ram - 1809 - 50000 - Pune
Sham - 2340 - 55000 - Mumbai
Anna - 6986 - 90000 - LA
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
>
Enter Column to be updated
city
1. Update all 2. Update Selective
>
```

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help Assignment2 - Main.java
Assignment2 src > mysqljava Main main
Proj Main
Run Main
Enter Column to be updated
city
1. Update all 2. Update Selective
>
Enter new value of the column
London
-----Values Updated-----
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
>
1. Show all 2. Show Selective
>
John - 3424 - 100000 - London
Jane - 9809 - 100000 - London
Ram - 1809 - 50000 - London
Sham - 2340 - 55000 - London
Anna - 6986 - 90000 - London
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
>
1. Delete all 2. Delete Selective
>
Enter your where column
city
Enter your where condition e.g >,<
>
```

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help Assignment2 - Main.java
Assignment2 src > mysqljava Main main
Proj Main
Run Main
Enter your where column
Enter your where condition e.g >,<
Enter your where value
-----Values Deleted-----
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
1. Show all 2. Show Selective
Jane - 9809 - 100000 - London
Ram - 1809 - 50000 - London
Sham - 2340 - 55000 - London
Anna - 6986 - 90000 - London
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
1. Delete all 2. Delete Selective
-----Values Deleted-----
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
1. Show all 2. Show Selective
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
Git 21:52 CRLF UTF-8 4 spaces master
02:34 PM
25-11-2020
```

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help Assignment2 - Main.java
Assignment2 src > mysqljava Main main
Proj Main
Run Main
-----Values Deleted-----
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
1. Show all 2. Show Selective
Jane - 9809 - 100000 - London
Ram - 1809 - 50000 - London
Sham - 2340 - 55000 - London
Anna - 6986 - 90000 - London
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
1. Delete all 2. Delete Selective
-----Values Deleted-----
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
1. Show all 2. Show Selective
1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit
Process finished with exit code 0
Git 11:31 CRLF UTF-8 4 spaces master
02:35 PM
25-11-2020
```