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                        Assignment-6
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package jdbc;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.util.Scanner;

public class Assignment6 {

    static Scanner sc = new Scanner(System.in);

    public static void main(String[] args) {
        Statement st; //TO execute the query
        Connection con; //object of connection class to connect
to database
        ResultSet rs; //to store the multiple rows
        int ch, id;  //ch for choice and id for user input
        String value = null;
        float cost;
        String sql;
        try {
            Class.forName("com.mysql.jdbc.Driver");  //loading
JDBC driver
            con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/librarymana
gementsystem", "root", "root"); //connection to database
            st = con.createStatement();
            do {

                System.out.println("Enter your choice from the
list");

    System.out.println("************************************"
);
                System.out.println("1:Insert\n2:Show
book\n3:Update\n4:Delete");
                ch = sc.nextInt();

    System.out.println("*************************************\
n");
```

```java
                        switch (ch) {
                        case 1:          //insert operation
                        System.out.print("Enter the books id  ");
    //input from user
                        id=sc.nextInt();
                        System.out.print("Enter the title of book  ");
                        String name=sc.next();
                        System.out.print("Enter the author name  ");
                        String author=sc.next();
                        System.out.print("Enter the publication name
");
                        String pub=sc.next();
                        System.out.print("Enter the cost of book  ");
                        cost=sc.nextFloat();
                        System.out.print("Enter the date of
publication  ");
                        String Date=sc.next();
                        System.out.print("Enter the member reference
id  ");
                        int mid=sc.nextInt();
                            sql="insert into books
values("+id+",'"+name+"','"+author+"','"+pub+"',"+cost+",'"+Date+"',
"+mid+",'"+"R')"; //insert query
                            st.executeUpdate(sql);
    //executing query

    System.out.println("\n***************************************
*\n");
                            System.out.println("Book inserted
successfully!!");

    System.out.println("***************************************\
n");
                            break;
                        case 2:          //select query
                            rs = st.executeQuery("select
Book_id,bookname from books");          //loading rows in resultset
object
                            System.out.println("Book_id" + "\t\t" +
"bookname");
                            while (rs.next()) { //fetching one by one
row
                                System.out.println(rs.getInt(1) +
"\t\t" + rs.getString(2));
                            }

    System.out.println("***************************************\
n");
                            break;
```

```java
                    case 3:          //update query
                            System.out.println("Enter the book_id
which have to update");
                            id = sc.nextInt();
                            System.out.println("Enter the updated
cost");
                            cost = sc.nextFloat();
                            sql = "update books set bookcost=" + cost
+ " where book_id=" + id;   //update query
                            st.executeUpdate(sql);
    //executing update query

    System.out.println("*************************************\
n");
                            System.out.println("Cost updated
successfully!!");

    System.out.println("*************************************\
n");
                            break;
                    case 4:          //delete query
                            System.out.println("Enter the staff id
which have to delete");
                            id = sc.nextInt();
                            sql = "delete from staff where staff_id="
+ id;
                            st.executeUpdate(sql);      //delete
query executing

    System.out.println("*************************************\
n");
                            System.out.println("Entry deleted
successfully");

    System.out.println("*************************************\
n");
                            break;
                    default:
                            System.out.println("Enter Valid Choice");

    System.out.println("*************************************\
n");
                            break;
                    }
                    System.out.println("Do you want to do any
other operation type 'y' else 'n'");
                    value = sc.next();
```

```java
        System.out.println("***************************************\
n");
                } while (!value.equalsIgnoreCase("n"));
                st.close();
                con.close();
        } catch (Exception e) {
                e.printStackTrace();
        }

    }

}
/**************************************************************
```

Output:

Enter your choice from the list
****
1:Insert
2:Show book
3:Update
4:Delete
1
****

Enter the books id 1021
Enter the title of book Swami
Enter the author name Shivaji
Enter the publication name Mehta
Enter the cost of book 483
Enter the date of publication 2021-12-23
Enter the member reference id 101

****

Book inserted successfully!!
****

Do you want to do any other operation type 'y' else 'n'
y
****

Enter your choice from the list
****
1:Insert
2:Show book
3:Update
4:Delete
2

```
****************************************

Book_id          bookname
1009        Celestial Bodies
1015        Changing India
1005        Django for Beginners
1014        Game Changer
1002        HTML
1011        Indian Fiscal Federalism
1006        Introduction to RESTAPI
1008        Karmayoddha Granth
1007        Politics of Opportunism
1001        Swami
1021        Swami
1013        The Third Pillar
1010        Vivekadeepini
1012        We are Displaced
1004        Wings of Fire
****************************************

Do you want to do any other operation type 'y' else 'n'
y
****************************************

Enter your choice from the list
****************************************
1:Insert
2:Show book
3:Update
4:Delete
3
****************************************

Enter the book_id which have to update
1021
Enter the updated cost
3000
****************************************

Cost updated successfully!!
****************************************

Do you want to do any other operation type 'y' else 'n'
y
****************************************

Enter your choice from the list
****************************************

1:Insert
```

```
2:Show book
3:Update
4:Delete
4
****************************************

Enter the staff id which have to delete
201
****************************************

Entry deleted successfully
****************************************

Do you want to do any other operation type 'y' else 'n'
y
****************************************

Enter your choice from the list
****************************************
1:Insert
2:Show book
3:Update
4:Delete
34
****************************************

Enter Valid Choice
****************************************

Do you want to do any other operation type 'y' else 'n'
n
****************************************
*/
```