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Assignment NO 8

Title:- Implement MYSQL/Oracle database connectivity with Java Implement Database navigation operations (add, delete, edit,) using ODBC/JDBC.

query:
package my:

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

/* running Simple Java SELECT program to connect to MysQL database
* running on localhost and and INSERT query
*@author to retrieve and add data.
*/

public class JavaToMysQL {
 //JDBC URL, username and password of MySQL server
 private static final String url = "jdbc:mysql://localhost:3306/test";
private static final String user = "sspm";
 private static final String password = "sspm123*";

//JDBC variables for opening and managing connection
private static Connection con;
private static Statement stmt;
private static ResultSet rs;
private static void update()
{

Scanner sc = new Scanner(System.in);
 int newid,oldid; System.out.println("enter id to update recorde");
 oldid sc.nextlnt();
System.out.println("enter id to update recorde");
 newid = sc.nextlnt();
 String query= "update books set id="+newid+" where id="+oldid+"
Try{

//opening database connection to MysQL server
Con=DriverManager.gelConnection(url, user, password);

 //getting Statement object to execute query
 stmt = con.createStatement();

 //executing SELECT query;
 stmt.executeUpdate(query);
 catch (SQLException sqlEx) {
```

```
 sqlEx.printStackTrace():

}

private static void delete()
Scanner sC = new Scanner(System.in);
 int idno;
 System.out.println("enter id to delete recorde");
 idno = sc.nextlnt();
 String query = "delete from books where id="+idno;
try{
// opening database connection to MySQLserver
 con = DriverManager.getConnection(url, user, password);
 //getting Statement object to execute query
 stmt = con.createStatement()

//executing SELECT query
stmt.executeUpdate(query);
catch (SQLException sqlEx)
{
sqlEx.printStackTrace():
}

 private static void entry()
{
Scanner sc = new Scanner(System.in);
 int num;

String name;
System.out.println("enter id"):;
num sc.nextlnt();
System.out.println("enter name");
name=sc.next();
String query = "INSERT INTO test.books (id, name) In"+ "VALUES ("*num+". "+namet+"):";
try
//opening database connection to MySQL server
 con= DriverManager.getConnection(url, user, password);
// getting Statement object to execute query
stmt= con.createStatement();

//executing SELECT query
 stmt.executeUpdate(query);
 catch (SQLException sqlEx)
 {
 sqlEx.printStackTrace();
}
 private static void displa()
 String query = "select id,name from books"
Try{
//opening database connection to MySQL server
 con= DriverManager.getConnection(url, user, password);
 //getting Statement object to execute query
 stmt = con.createStatement();
 // executing SELECT query
```

```
 rs= stmt.executeQuery(query);

 while (rs.next()) {
 int count = rs.getlnt(1);
 // String name =rs.getCursorName();
 System.out.println("Total number of books id in the table: " +count );
}
catch (SQLException sqIEx){
sqlEx.printStackTrace(); finally { l
//close connection stmt and resultset here

try { con.close(); } catch(SQLException se) {*can't do anything */}
 try { stmt.close(); } catch(SQLException se) {/*can't do anything */}
 try { rs.close(); } catch(SQLException se) {/*can't do anything */}

}
}

public static void main(String args[]) {

int ch;
do{ Iint ch;
 System.out.println("1.insert In 2.dispaly In 3.delete In 4.update");
 System.out.println("enter your choice");
 Scanner sc = new Scanner(System.in);
ch = sc.nextlnt();
switch(ch{
case 1:
{

Entry();
 break;
 }

case 2:
{
Display();
 break;
}

case 3:
{

delete();
 break;
}

 case 4:
{
update();

}
}
```

```
 System.out.println("Do ch = you want to continue?(y/n)");
sc.next().trim().charAt(0);
 }while(ch==y);

}
}
```

OUTPUT

```
1.insert
2.dispaly
 3.delete
4.update
enter your choice
1
 enter id
1
enter name
diya

Do you want to continue?(y/n)
y
 1.insert
2.dispaly
3.delete
4.update
enter your choice
 1
enter id
 2
 enter name
adiraj
 Do you want to continue?(y/n)
Y
1.insert
2.dispaly
 3.delete
4.update
enter your choice
 2
 Total number of books id in the table :1
 Total number of books id in the table:2

mysql> use test;

Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed mysql> select* from books;

+------+ ----------- +

| id   | name   |
+------+ -----------+
```

```
|  1|diya |
| 2    | adiraj    |
+--------+------------+

3 rows in set (0.00 sec)


Do you want to continue?(y/n)
Y
 1.insert
2.dispaly
3.delete
4.update
 enter your choice
 4
enter id to update recorde
 1
 enter id to update recorde
 3

 Do you want to continue?(y/n)
 Y

1.insert
 2.dispaly
 3.delete
 4.update
enter your choice
 2
 Total number of books id in the table: 1
 Total number of books id in the table: 3

mysql select" from books;

+------+ ----------- +

| id   | name   |
+------+ -----------+

|  1   | diya|
| 3    | adiraj    |
+--------+------------+


Do you want to continue?(y/n)
Y
1.insert
 2.dispaly
 3.delete
 4.update

 enter your choice
```

3
enter id to delete recorde
3

Do you want to continue?(y/n)
Y
1.insert
2.dispaly
3.delete
4.update

enter your choice
2

Total number of books id in the table: 1

Do you want to continue?(y/n)

Database changed
Mysql>select*from books;

+------+ ----------- +

| id | name |

+------+ -----------+

| 1 | diya|

+--------+-----------+

3 rows in set (0.00 sec)