TRINITY INTERNATIONAL COLLEGE

(Tribhuvan University Affiliated)



Lab Report:4 JDBC

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Unit 4: Database Connectivity

1. Write a Java program using JDBC to extract name of those students who live in Kathmandu district, assuming that the student table has four attributes (ID, name, district, and age). [2072]

```
package Q1 SelectName;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
/**
 * @author user
 * /
public class SelectStudentsName {
    public static void main(String[] args) throws SQLException {
        String url = "jdbc:mariadb://localhost:3306/students";
        String username = "root";
        String password = "";
        Connection connection = DriverManager.getConnection(url,
         username, password);
        Statement statement = (Statement)
              connection.createStatement();
        String sql = "select * from studentdata where
            district='kathmandu' ";
        ResultSet rs = statement.executeQuery(sql);
        while (rs.next()) {
            System.out.printf("%d %s %s \n",
                     rs.getInt("id"),
                     rs.getString("name"),
                     rs.getString("district"),
                     rs.getInt("age"));
        }
        statement.close();
        connection.close();
    }
}
              Output - JDBC (run) X
                   2 aliza kathmandu
                   6 anup kathmandu
                   8 Anuska kathmandu
                   9 Anusha Kathmandu
                   17 Rikita Kathmandu
                   BUILD SUCCESSFUL (total time: 3 seconds)
```

2. Write a program to illustrate the process of executing SQL statements in JDBC? [2073, 2074]

SQLINSERT

```
package Q2 SQLLstatement;
import java.sql.Statement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
/**
 * @author user
 */
public class SqlInsertDemo {
    public static void main(String[] args) throws SQLException {
        String url = "jdbc:mariadb://localhost:3306/java";
        String username = "root";
        String password = "";
        Connection connection = DriverManager.getConnection(url,
username, password);
        Statement statement = (Statement)
connection.createStatement();
        String sql = "insert into contacts (name, address) " +
"values('anu','dhading')";
        ResultSet rs = statement.executeQuery(sql);
        statement.close();
        connection.close();
    }
               Output - JDBC (run) X
}
                    BUILD SUCCESSFUL (total time: 2 seconds)
```

SQLSELECT

```
package Q2_SQLLstatement;
import java.sql.Statement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
```

```
import java.sql.SQLException;
/**
 * @author user
 * /
public class SqlSelectDemo {
    public static void main(String[] args) throws SQLException {
        String url = "jdbc:mariadb://localhost:3306/java";
        String username = "root";
        String password = "";
        Connection connection = DriverManager.getConnection(url,
username, password);
        Statement statement = (Statement)
connection.createStatement();
        String sql = "select * from contacts where name='anu' ";
        ResultSet rs = statement.executeQuery(sql);
        while (rs.next()) {
            System.out.printf("%d %s %s \n",
                     rs.getInt("id"),
                     rs.getString("name"),
                     rs.getString("address"));
        }
        statement.close();
        connection.close();
    }
             Output - JDBC (run) X
                 run:
}
                 5 anu dhading
                  6 anu dhading
                 BUILD SUCCESSFUL (total time: 0 seconds)
```

SQLUPDATE

```
package Q2_SQLLstatement;
import java.sql.Statement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
/**
    * @author user
    */
```

```
public class SqlUpdateDemo {
    public static void main(String[] args) throws SQLException {
        String url = "jdbc:mariadb://localhost:3306/java";
        String username = "root";
        String password = "";
        Connection connection = DriverManager.getConnection(url,
username, password);
        Statement statement = (Statement)
connection.createStatement();
        String sql = "update contacts set address='dhading' where id
= 1";
        ResultSet rs = statement.executeQuery(sql);
        statement.close();
        connection.close();
             Output - JDBC (run) X
                 run:
}
                 BUILD SUCCESSFUL (total time: 0 seconds)
```

3. Implement CRUD (Create/Insert, Read/Select, Update, Delete) operations for student table. Ask for user input where applicable.

SelectStudentData.java

```
package Q3_CRUD_SQLStatement;

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

/**
    * @author user
    */
public class SelectStudentData {
    public static void main(String[] args) throws SQLException {
```

```
String url = "jdbc:mariadb://localhost:3306/students";
        String username = "root";
        String password = "";
        Connection connection = DriverManager.getConnection(url,
username, password);
        Statement statement = (Statement)
connection.createStatement();
        Scanner s = new Scanner(System.in);
        System.out.println("Enter ID no you want to search for :");
        int Id = s.nextInt();
        String sql = String.format(
                 "select * from studentdata where id='%d '", Id
        );
        ResultSet rows = statement.executeQuery(sql);
        while (rows.next()) {
            System.out.printf("%d %s %s %d \n",
                     rows.getInt("id"),
                     rows.getString("name"),
                     rows.getString("district"),
                     rows.getInt("age"));
        }
        statement.close();
        connection.close();
                Output - JDBC (run) X
                     run:
}
                     Enter ID no you want to search for :
                     1 aakriti Dhading 15
                     BUILD SUCCESSFUL (total time: 3 seconds)
```

InsertStudentsData

```
package Q3_CRUD_SQLStatement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Scanner;

/**
    * @author user
    */
public class InsertStudentsData {
        public static void main(String[] args) throws SQLException {
            String url = "jdbc:mariadb://localhost:3306/students";
            String username = "root";
```

```
String password = "";
        Connection connection = DriverManager.getConnection(url,
username, password);
        Statement statement = (Statement)
connection.createStatement();
        Scanner s=new Scanner(System.in);
        System.out.println("Enter Name:");
        String name=s.nextLine();
        System.out.println("Enter district:");
        String district=s.nextLine();
        System.out.println("Enter age:");
        int age=s.nextInt();
        String sql = String.format(
             "insert into studentdata (name, district, age) values
('%s', '%s','%d')",
            name,
            district, age
        );
        int rowsInserted = statement.executeUpdate(sql);
        if(rowsInserted > 0)
            System.out.println("Insert successful");
        else
            System.out.println("Insert failed");
        statement.close();
        connection.close();
              Output - JDBC (run) X
}
                  run:
                  Enter Name:
                  anusha
                  Enter district:
                  kathmandu
                  Enter age:
                  12
                  Insert successful
                  BUILD SUCCESSFUL (total time: 12 seconds)
```

UpdateStudentData

```
package Q3_CRUD_SQLStatement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Scanner;
```

```
/**
 * @author user
 * /
public class UpdateStudentData {
    public static void main(String[] args) throws SQLException {
        String url = "jdbc:mariadb://localhost:3306/students";
        String username = "root";
        String password = "";
        Connection connection = DriverManager.getConnection(url,
username, password);
        Statement statement = (Statement)
connection.createStatement();
        Scanner s = new Scanner(System.in);
        System.out.println("Enter ID number you want to update :");
        int id = s.nextInt();
        System.out.println("Enter Name:");
        String name = s.next();
        System.out.println("Enter district:");
        String district = s.next();
        System.out.println("Enter age:");
        int age = s.nextInt();
        String sql = String.format(
                 "update studentdata set name='%s',district='%s',"
                 + "age='%d' where id = '%d' ", name, district, age,
id
        );
        ResultSet rows = statement.executeQuery(sql);
        statement.close();
        connection.close();
    }
            Output ×
            JDBC (run) × JDBC (run) #2 ×
}
            \mathbb{D}
                Enter ID number you want to update :
            %
                 Enter Name:
                 java
                 Enter district:
                 kathmandu
                Enter age:
                 BUILD SUCCESSFUL (total time: 18 seconds)
```

DeleteStudentsData

```
package Q3_CRUD_SQLStatement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Scanner;
/**
 * @author user
 * /
public class DeleteStudentsData {
    public static void main(String[] args) throws SQLException {
        String url = "jdbc:mariadb://localhost:3306/students";
        String username = "root";
        String password = "";
        Connection connection = DriverManager.getConnection(url,
username, password);
        Statement statement = (Statement)
connection.createStatement();
        Scanner s = new Scanner(System.in);
        System.out.println("Enter ID number you want to delete :");
        int id = s.nextInt();
        String sql = String.format(
                 "delete from studentdata where id = '%d' ", id );
        ResultSet rows = statement.executeQuery(sql);
        statement.close();
        connection.close();
             Output - JDBC (run) #2 ×
}
                  run:
                  Enter ID number you want to delete :
                  BUILD SUCCESSFUL (total time: 5 seconds)
```

4. Implement CRUD operations for student table using prepared statements. Ask for user input where applicable.

<u>SelectPreparedStatement</u>

```
package Q4_CRUD_PreparedStatement;
import java.sql.Connection;
```

```
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Scanner;
/**
 * @author user
public class SelectPreparedStatement {
   public static void main(String[] args) throws SQLException {
Connection to the Database
************
       String url = "jdbc:mariadb://localhost:3306/students";
       String username = "root";
       String password = "";
       Connection connection = DriverManager.getConnection(url,
username, password);
// ********** If user want to select but he/she don't know
what values are inside database table
*******
       System.out.println("Do You want to see database table before
making Selection Query??(Y/N):");
       Scanner in = new Scanner(System.in);
       char userChoice = in.next().charAt(0);
       if (userChoice == 'Y') {
          String sql = "select * from studentdata";
          PreparedStatement statement =
connection.prepareStatement(sql);
          ResultSet resultSet = statement.executeQuery();
          while (resultSet.next()) {
              System.out.printf("%d, %s, %s, %d, \n",
                     resultSet.getInt("id"),
                     resultSet.getString("name"),
                     resultSet.getString("district"),
                     resultSet.getInt("age")
              );
           }
          statement.close();
       }
// ********* If user want to select but he/she don't know
what values are inside database table
********
       if (userChoice == 'N') {
          System.out.println("ok..");
```

```
}
            //***** Taking user input
******
            System.out.println("Enter the Id to select from
database:");
            int id = in.nextInt();
            //***** Sql Prepared
String sql = "select * from studentdata where id = ?";
            PreparedStatement statement =
connection.prepareStatement(sql);
            statement.setInt(1, id);
            ResultSet resultSet = statement.executeQuery();
            while (resultSet.next()) {
                System.out.printf("%d, %s, %s, %d \n",
                        resultSet.getInt("id"),
                        resultSet.getString("name"),
                        resultSet.getString("district"),
                        resultSet.getInt("age")
                );
            }
            statement.close();
        connection.close();
    }
Output - JDBC (run) #2 ×
     Do You want to see database table before making Selection Query??(Y/N):
1, java, kathmandu, 12,
    2, aliza, kathmandu, 22,
     3, akash, chitwan, 22,
     6, anup, kathmandu, 17,
     8, Anuska, kathmandu, 18,
     9, Anusha, Kathmandu, 16,
    10, Raj, Dhading, 12,
    12, alisha, jhapa, 56,
    16, shreya, lalitpur, 21,
    17, Rikita, Kathmandu, 24,
    19, anusha, kathmandu, 12,
    Enter the Id to select from database:
     19, anusha, kathmandu, 12
     BUILD SUCCESSFUL (total time: 12 seconds)
```

InsertPreparedStatement

package Q4 CRUD PreparedStatement;

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Scanner;
/**
 * @author user
* /
public class InsertPreparedStatement {
   public static void main(String[] args) throws SQLException {
//****** Establishing
Connection to the Database
***********
       String url = "jdbc:mariadb://localhost:3306/students";
       String username = "root";
       String password = "";
       Connection connection = DriverManager.getConnection(url,
username, password);
       Scanner s = new Scanner(System.in);
       System.out.println("Enter Name:");
       String name = s.nextLine();
       System.out.println("Enter district:");
       String district = s.nextLine();
       System.out.println("Enter age:");
       int age = s.nextInt();
       String sql = String.format(
               "insert into studentdata (name, district, age) values
('%s', '%s','%d')",
               name,
               district, age
       );
       PreparedStatement statement =
connection.prepareStatement(sql);
       int resultSet = statement.executeUpdate();
       if (resultSet > 0) {
           System.out.println("Insert Successfull");
           System.out.println("Insertion Failed");
       statement.close();
       connection.close();
```

<u>UpdatePreparedStatement</u>

```
package Q4 CRUD PreparedStatement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.Scanner;
/**
 * @author user
public class UpdatePreparedStatement {
    public static void main(String[] args) throws SQLException {
        String url = "jdbc:mariadb://localhost:3306/students";
        String username = "root";
        String password = "";
        Connection connection = DriverManager.getConnection(url,
username, password);
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the Id no you want to update ::");
        int id = s.nextInt();
        System.out.println("Enter Name:");
        String name = s.next();
        System.out.println("Enter district:");
        String district = s.next();
        System.out.println("Enter age:");
        int age = s.nextInt();
        String sql = String.format(
                "update studentdata set name='%s',district='%s',"
                + "age='%d' where id = '%d' ", name, district, age,
id
        );
```

```
PreparedStatement statement =
connection.prepareStatement(sql);
         int resultSet = statement.executeUpdate();
         if (resultSet > 0) {
             System.out.println("Update Successfull");
             System.out.println("Update Failed (May be the id donot
exist)");
         statement.close();
         connection.close();
        Output - JDBC (run) #3 ×
}
            run:
            Enter the Id no you want to update ::
            19
            Enter Name:
            anup
            Enter district:
            pokhara
            Enter age:
            Update Successfull
             BUILD SUCCESSFUL (total time: 31 seconds)
```

DeletePreparedStatement

```
package Q4 CRUD PreparedStatement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.Scanner;
/**
 * @author user
public class DeletePreparedStatement {
   public static void main(String[] args) throws SQLException {
//****** Establishing
Connection to the Database
***********
       String url = "jdbc:mariadb://localhost:3306/students";
       String username = "root";
       String password = "";
```

```
Connection connection = DriverManager.getConnection(url,
username, password);
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the Id no you want to delete ::");
        int id = s.nextInt();
        String sql = String.format(
                "delete from studentdata where id = '%d' ", id);
        //****** Sql Prepared
Statement*******************
        PreparedStatement statement =
connection.prepareStatement(sql);
        int resultSet = statement.executeUpdate();
        if (resultSet > 0) {
            System.out.println("Delete Successfull");
            System.out.println("Delete Failed (May be the id donot
exist)");
        statement.close();
        connection.close();
          Output - JDBC (run) #3 X
}
              run:
              Enter the Id no you want to delete ::
              Delete Successfull
              BUILD SUCCESSFUL (total time: 11 seconds)
```

5. Implement CRUD operations for student table in Swing. Ask for user input where applicable.

```
package Q5_CRUD_Swing;
import java.awt.FlowLayout;
import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
```

```
import javax.swing.JButton;
import javax.swing.JDialog;
import javax.swing.JFrame;
import static javax.swing.JFrame.EXIT ON CLOSE;
import javax.swing.JLabel;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextArea;
import javax.swing.JTextField;
/**
* @author user
* /
public class Q5 Swing CRUD extends JFrame {
public static void main(String[] args) throws SQLException,
NullPointerException {
Q5_Swing_CRUD crud = new Q5_Swing_CRUD();
crud.setVisible(true);
crud.setSize(370, 150);
}
int rows;
Object[][] cells;
JTable table;
ResultSet result;
Statement statement;
Connection connection;
JDialog dialogbox;
public Q5 Swing CRUD() throws SQLException {
super("Database Operation");
setLayout(new FlowLayout());
dialogbox = new JDialog(Q5 Swing CRUD.this, "Database");
dialogbox.setLayout(new FlowLayout());
dialogbox.setBounds(100, 70, 500, 100);
JLabel label = new JLabel("Which database operation do you want to
perform?");
add(label);
JButton selectButton = new JButton("SELECT");
add(selectButton);
JButton insertButton = new JButton("INSERT");
add(insertButton);
JButton updateButton = new JButton("UPDATE");
add(updateButton);
JButton deleteButton = new JButton("DELETE");
add (deleteButton);
try {
```

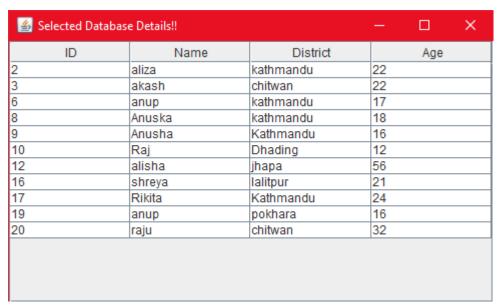
```
String url = "jdbc:mariadb://localhost:3306/students";
String username = "root";
String password = "";
connection = DriverManager.getConnection(url, username, password);
statement = (Statement) connection.createStatement();
} catch (SQLException e) {
System.out.println("Error is" + e);
selectButton.addActionListener(new ActionListener() {
@Override
public void actionPerformed(ActionEvent ae) {
result = statement.executeQuery("select * from studentdata");
result.last();
rows = result.getRow();
result.first();
} catch (SQLException e) {
System.out.println("Error is" + e);
cells = new Object[rows][4];
try {
for (int i = 0; i < rows; i++) {
for (int j = 0; j < 4; j++) {
cells[i][j] = result.getString(j + 1);
result.next();
} catch (SQLException e) {
System.out.println("Error is" + e);
JFrame frame = new JFrame("Selected Database Details!!");
frame.setVisible(true);
frame.setSize(500, 300);
String[] columnNames = {"ID", "Name", "District", "Age"};
table = new JTable(cells, columnNames);
frame.getContentPane().add(new JScrollPane(table));
}
});
insertButton.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent ae) {
JFrame frame = new JFrame("Insert Into Database!!");
frame.setVisible(true);
frame.setSize(500, 200);
frame.setLayout(new GridLayout(4, 2));
frame.add(new JLabel("Name"));
JTextField nameField = new JTextField(20);
```

```
frame.add(nameField);
frame.add(new JLabel("District"));
JTextField districtField = new JTextField(20);
frame.add(districtField);
frame.add(new JLabel("Age"));
JTextField ageField = new JTextField(20);
frame.add(ageField);
JButton insert = new JButton("Insert Into Database");
frame.add(insert);
insert.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent ae) {
try {
String name = nameField.getText();
int age = Integer.parseInt(ageField.getText());
String district = districtField.getText();
String sql = String.format(
"insert into studentdata (name, district,age) values ('%s',
'%s','%d')",
name,
district, age
);
int rowsInserted = statement.executeUpdate(sql);
if (rowsInserted > 0) {
JTextArea text = new JTextArea();
text.setText("Insert Succesfull");
dialogbox.add(text);
dialogbox.setVisible(true);
} else {
JTextArea text = new JTextArea();
text.setText("Insert Failed");
dialogbox.add(text);
dialogbox.setVisible(true);
}
statement.close();
connection.close();
} catch (SQLException ex) {
System.out.println("Error is" + ex);
}
}
```

```
);
});
deleteButton.addActionListener(new ActionListener() {
@Override
public void actionPerformed(ActionEvent ae) {
JFrame frame = new JFrame("Delete From Database!!");
frame.setVisible(true);
frame.setSize(500, 200);
frame.setLayout(new GridLayout(4, 2));
frame.add(new JLabel("ID"));
JTextField idField = new JTextField(20);
frame.add(idField);
JButton delete = new JButton("Delete From Database");
frame.add(delete);
delete.addActionListener(new ActionListener() {
@Override
public void actionPerformed(ActionEvent ae) {
try {
int id = Integer.parseInt(idField.getText());
String sql = String.format(
"delete from studentdata where id='%d'", id
);
int rowsDeleted = statement.executeUpdate(sql);
if (rowsDeleted > 0) {
JTextArea text = new JTextArea();
text.setText("Delete Succesfull");
dialogbox.add(text);
dialogbox.setVisible(true);
} else {
JTextArea text = new JTextArea();
text.setText("Delete Failed");
dialogbox.add(text);
dialogbox.setVisible(true);
statement.close();
connection.close();
} catch (SQLException ex) {
System.out.println("Error is" + ex);
}
}
```

```
}
);
}
});
updateButton.addActionListener(new ActionListener() {
@Override
public void actionPerformed(ActionEvent ae) {
JFrame frame = new JFrame("Update Into Database!!");
frame.setVisible(true);
frame.setSize(500, 200);
frame.setLayout(new GridLayout(5, 2));
frame.add(new JLabel("Id"));
JTextField idField = new JTextField(20);
frame.add(idField);
frame.add(new JLabel("Name"));
JTextField nameField = new JTextField(20);
frame.add(nameField);
frame.add(new JLabel("District"));
JTextField districtField = new JTextField(20);
frame.add(districtField);
frame.add(new JLabel("Age"));
JTextField ageField = new JTextField(20);
frame.add(ageField);
JButton update = new JButton("Update Into Database");
frame.add(update);
update.addActionListener(new ActionListener() {
@Override
public void actionPerformed(ActionEvent ae) {
int id = Integer.parseInt(idField.getText());
String name = nameField.getText();
int age = Integer.parseInt(ageField.getText());
String district = districtField.getText();
String sql = String.format(
"update studentdata set name='%s',district='%s',age='%d' where
id='%d'",
name,
district, age, id
ResultSet rs = statement.executeQuery(sql);
```

```
statement.close();
connection.close();
} catch (SQLException ex) {
System.out.println("Error is" + ex);
}
}
}
);
}
});
pack();
setDefaultCloseOperation(EXIT_ON_CLOSE);
                                                    ×
                 🙆 Database Operation
}
}
                    Which database operation do you want to perform?
                    SELECT
                              INSERT
                                         UPDATE
                                                    DELETE
```







6. Implement account balance transfer operation (use transactions). Ask for user input where applicable.

```
package Q6_SQL_Transaction;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Scanner;
/**
* @author user
public class Q6 BalanceTransfer {
public static void main(String[] args) throws SQLException {
String url = "jdbc:mariadb://localhost:3306/bank_transactions";
String username = "root";
String password = "";
Connection connection = DriverManager.getConnection(url,
username, password);
Statement statement = (Statement) connection.createStatement();
connection.setAutoCommit(false);
Scanner in = new Scanner(System.in);
System.out.println("**** Transfer Money *****");
System.out.println("Enter Semder's id: ");
int senderId = in.nextInt();
System.out.println("Enter Recipient's id: ");
int recipientId = in.nextInt();
System.out.println("Enter amount: ");
int amount = in.nextInt();
try {
String sqlsenderupdate = String.format(
"update account detail set Balance=Balance-'%d' where Id='%d'",
```

```
amount, senderId
   );
   String sqlreceiverupdate = String.format(
   "update account detail set Balance=Balance+'%d' where Id='%d'",
   amount, recipientId
   );
   ResultSet senderupdate = statement.executeQuery(sqlsenderupdate);
   ResultSet receiverupdate =
   statement.executeQuery(sqlreceiverupdate);
   connection.commit();
   System.out.println("Amount: Rs " + amount +" has been
   successfully transferred from id: " + senderId+
   " to Recipient's id: "+ recipientId);
   }
   catch(SQLException e){
   connection.rollback();
   System.out.println("Transfer Failed!!!Try Again....");
   }
Output - JDBC (run) #4 X
    run:
    **** Transfer Money *****
\square
   Enter Semder's id:
Enter Recipient's id:
    Enter amount:
    Amount: Rs 1345 has been successfully transferred from id: 1 to Recipient's id: 3
    BUILD SUCCESSFUL (total time: 11 seconds)
```