

## Assignment

### SQL Query :

#### Creating Database

1. create database mydb
2. create table bank  
(  
    Accountname    varchar(30),  
    Accountno     int primary key ,  
    Accountbal    int  
)
3. Insert into bank (Accountname, Accountno, Accountbal) values ('divya', 1234, 8000);
4. Insert into bank (Accountname, Accountno, Accountbal) values ('uma', 5678, 18000);
5. Insert into bank (Accountname, Accountno, Accountbal) values ('viji', 1076, 5000);
6. Insert into bank (Accountname, Accountno, Accountbal) values ('murali', 1011, 5000);
7. Insert into bank (Accountname, Accountno, Accountbal) values ('sree', 1012, 7000);
8. Insert into bank (Accountname, Accountno, Accountbal) values ('rajesh', 1013, 10000);
9. Insert into bank (Accountname, Accountno, Accountbal) values ('rithu', 1014, 3000);

10. create table transaction

```
(  
    Accountno int ,  
    Accounttype varchar(30),  
    AccountBal int ,  
    transid int primary key  
)
```

11. Insert into transaction (Accountno, Accounttype, AccountBal, transid) values (1234, credit, 2000, 1);

12. Insert into transaction (Accountno, Accounttype, AccountBal, transid) values (1234, credit, 2000, 2);

13. Insert into transaction (Accountno, Accounttype, AccountBal, transid) values (1234, debit, 2000, 3);

14. Insert into transaction (Accountno, Accounttype, AccountBal, transid) values (1076, credit, 3000, 4);

15. Insert into transaction (Accountno, Accounttype, AccountBal, transid) values (1234, debit, 1000, 5);

16. Insert into transaction (Accountno, Accounttype, AccountBal, transid) values (1234, debit, 2000, 6);

17. Insert into transaction (Accountno, Accounttype, AccountBal, transid) values (1076, credit, 4000, 7);

code start.jsp

```
<?@ page language = "java" contentType = "text/html";  
    charset = ISO-8859-1" pageEncoding = "ISO-8859-1">
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset = "ISO-8859-1">
```

```
<title> Balance and Transactions </title>
```

```
</head>
```

```
<body>
```

```
<h1> BANKING PAGE </h1>
```

```
<form action = "transfer" method = "get">
```

```
<input type = "text" name = "trans">
```

```
<input type = "submit" value = "Transfer">
```

```
</form>
```

```
<br><a href = "BankTransaction.jsp"> View Transaction  
                                </a>
```

```
<a href = "balance.jsp"> View Balance </a>
```

```
</body>
```

```
</body>
```

```
</html>
```



code

balance.jsp

use case - I

< / @ taglib prefix = "sql" uri = "http://java.sun.com/  
jsp/sql" / >

< !DOCTYPE html >

< html >

< head >

< meta charset = "ISO-8859-1" >

< title > Insert < /title >

< /head >

< body >

< sql : setDataSource var = "db" driver = "com.mysql.  
jdbc.Driver" url = "jdbc:mysql://localhost:3306"  
user = "root" password = "root" / >

< sql : query var = "resultSet" dataSource = "\${db}" >  
select \* from bank < /sql : query >

< c : forEachItems = "\${resultSet.rows}" var = "i" >

BALANCE IS : < c : out value = "\${i, accountbalance}" >  
< /c : out >

< /c : forEach >

< a href = "start.jsp" > start < /a >

< /body >

< /html >

## Bank Transaction.jsp

```
<%@ page language = "java" contentType = "text/html";
```

```
    charset = ISO-8859-1" pageEncoding = "ISO-8859-1"%>
```

```
<%@ taglib prefix = "sql" uri = "http://java.sun.com/jsp/
    sql"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

```
<title> Transaction </title>
```

```
</head>
```

```
<body>
```

```
    <h1> PAGE TRANSACTIONS </h1>
```

```
<sql:setDataSource var = "mydb" driver = "com.mysql.
    jdbc.Driver" url = "jdbc:mysql://localhost:3306"
    user = "root" password = "root"/>
```

```
<sql:query var = "resultset" dataSource = "${db}">
    select * from transaction order by transid
    desc limit 5; </sql:query>
```

```
<c:forEach items = "${resultset.rows}" var = i">
```

```
<br><c:out value = "${i.type}"> </c:out>
```

```
<c:out value = "${i.Accountbal}"> </c:out>
```

```
</c:forEach>
```

```
<br><br><br><a href = "start.jsp"> start </a>
```

```
</body>
```

```
</html>
```

## code

```
< %> @page import = " java . sql . DriverManager " %>
```

```
< %> @page import = " java . sql . ResultSet " %>
```

```
< %> @page import = " java . sql . Statement " %>
```

```
< %> @page import = " java . sql . connection " %>
```

```
< %>
```

```
String id = request . getParameter ( "userId" );
```

```
String driverName = " com . mysql . jdbc . Driver ;
```

```
String connectionUrl = " jdbc : mysql : // localhost :  
3306 / " ;
```

```
String dbName = " mydb " ;
```

```
String userId = " root " ;
```

```
String password = " root " ;
```

```
try {
```

```
Class.forName ( driverName driverName );
```

```
}  
catch ( ClassNotFoundException e )
```

```
{
```

```
e.printStackTrace ();
```

```
}  
Connection connection = null ;
```

```
Statement statement = null ;
```

```
ResultSet resultSet = null ;
```

```
%>
```



```

<h2 align = "center"> <font> <strong> Transaction
process </strong> </font> </h2>
<form action = "Fundtransfer" method = "get">
</>

```

```
try {
```

```

    connection = DriverManager.getConnection(ConnectionUrl +
        mydb, userID, password);

```

```

    statement = connection.createStatement();

```

```

    String sql = "UPDATE Transaction Bank SET Accountbal =
        Accountbal - "+ amount + " where Accountno = 1234";

```

```

    Statement st = connection.createStatement();

```

```

    st.executeUpdate(sql);

```

```

    String sql1 = "Insert into transactions (Accountno,
        Accounttype, amount) values ('1234', 'debit', ?)";

```

```

    Preparedstatement st2 = connection.prepareStatement
        (sql1);

```

```

    st2.setInt(1, amount);

```

```

    st2.executeUpdate();

```

```

    statement.close();

```

```

    connection.close();

```

```

    RequestDispatcher rd = request.getRequestDispatcher
        ("/start.jsp");

```

```

    rd.forward(request, response);

```

```
}

```

```

catch (SQLException | ClassNotFoundException e) {

```

```

    e.printStackTrace();

```

```
}

```

## Expected output

Balance and Transactions

Banking Page

Transfer

View Transaction

View Balance

Balance Page

BALANCE IS 9000

TRANSACTIONS PAGE

Accounttype :	credit
Accountbal :	10000
Accounttype :	credit
Accountbal :	12000
Accounttype :	debit
Accountbal :	10000
Accounttype :	credit
Accountbal :	8000
Accounttype :	debit
Accountbal :	9000

Home



Transaction Process

Fund transfer

Balance Page

BALANCE IS 8000