Database Name: bankingdb

1. Accounts Table Query

```sql
create table accounts
(
acc_no int IDENTITY(1001,1) primary key,
acc_nm varchar(40),
acc_type varchar(20),
ctype varchar(20),
balance float,
ustatus varchar(20) default 'Active',
acc_status varchar(20) default 'Closed',
open_date date,
CHECK (balance>500));
```

2. Users Table Query

```sql
create table users
(
psw varchar(20),
unm varchar(40),
utype varchar(20) default 'Customer',
ustatus varchar(20) default 'Active',
acc_status varchar(20),
acc_no int  FOREIGN KEY REFERENCES accounts(acc_no));
```

3. User_Personal Table Query

```sql
create table user_personal
(
uid int not null,
unm varchar(30) not null,
dob date not null,
mobno varchar(30) not null,
email varchar(50) not null,
address varchar(50) not null,
city varchar(30),
sec_qus varchar(50),
ans varchar(50));
```

```sql
create table trans_info
(
trans_no int IDENTITY(1,1) primary key,
to_acc_no int FOREIGN KEY REFERENCES accounts(acc_no),
frm_acc_no int,
amount float not null,
trans_type varchar(30) not null,
date date not null
);
```

5. Employees Table Query for Manager & Cashier

```sql
create table employees
(
eid int Primary key,
psw varchar(20) not null,
enm varchar(40) not null,
etype varchar(20),
estatus varchar(20) default 'Active',
);
```

Stored Procedures

1. Procedure for Opening New Accounts

```
CREATE PROCEDURE newacc
@acc_no int,@acc_nm varchar(40),@acc_type varchar(20),@ctype varchar(20),@balance
float,@ustatus varchar(20),@acc_status varchar(20),@open_date date
AS
BEGIN
insert into accounts
values(@acc_no,@acc_nm,@acc_type,@ctype,@balance,@ustatus,@acc_status,@open_dat
e);
END
```

2. Procedure for Updating two table at the time of active/Deactivate Users

```
CREATE PROCEDURE UpdateTwoTables
    (
    @unm varchar(40),
    @ustatus varchar(20),
    @acc_status varchar(20),
    @utype varchar(20),
    @acc_no int
     )
    AS
    BEGIN

    UPDATE users SET unm = @unm, ustatus = @ustatus,  acc_status  = @acc_status
WHERE acc_no=@acc_no

    Update accounts SET ustatus = @ustatus WHERE acc_no =@acc_no

    END
    RETURN
```

This below Connection String is used at the grid view of Activate/Deactivate User

```
ConnectionString="<%$ ConnectionStrings:bankingdbConnectionString11 %>"
SelectCommand="SELECT users.acc_no, users.unm, users.ustatus, users.acc_status,
users.utype FROM users INNER JOIN accounts ON users.acc_no = accounts.acc_no"

UpdateCommand="UpdateTwoTables"

UpdateCommandType="StoredProcedure">
```

Default.apx

Queries for login

1. "select * from employees where eid=@a and psw=@b and etype='Manager';"
2. select * from employees where eid=@a and psw=@b and etype='Cashier';"
3. "select * from users where acc_no=@a and psw=@b and ustatus='Active' and acc_status='Open';"

NewUser.aspx

Queries for Customer Registration

//to check wheather acc_no exist or not
1. "select unm from users where acc_no=@a;"

//update users table with password
2. "update users set psw=@a where acc_no=@b;"

//insert user personal information into User_Personal table

3. "insert into user_personal values(@a,@b,@c,@d,@e,@f,@g,@h,@i,@j);"

Manager.aspx

Open New Account Queries

// Query to get autoincrement account number

1. "SELECT MAX(acc_no) FROM accounts; "

//Stored Procedure to Open New Account
2. "exec newacc(acc_nm,@acc_type,@ctype,@balance,@ustatus,@acc_status,@open_date");

//Inserting data into users while opening new Account

3. "insert into users(acc_no,ustatus,acc_status,unm) values (" + txtaccno.Text + ",'" + txtustatus.Text + "','" + ddlacstatus.SelectedValue + "','" + txtaccnm.Text + "');

Queries for Transfer Amount

//Insert data into transaction table

1. "insert into trans_info(to_acc_no,frm_acc_no,amount,trans_type,date) values(@a,@b,@c,@d,@e);"

//Update data into accounts table

2. "update accounts set balance=balance - @a where acc_no=@b;"
3. "update accounts set balance=balance + @a where acc_no=@b;"

Queries for Daily Transaction Report

//get transaction report according to date

1. "select * from trans_info where date=@a;"

Queries for Search Account Info.

//get accounts info. Of entered account number

1. "select * from accounts where acc_no=@a;"

Queries for Close Account

//update accounts & users table while closing the account

1. "update accounts set acc_status=@a,ustatus=@b where acc_no=@c;"
2. "update users set acc_status=@x, ustatus=@y where acc_no=@z;"

Cashier.aspx

Queries for Transfer Amount

//Insert data into transaction table
1."insert into trans_info(to_acc_no,frm_acc_no,amount,trans_type,date) values(@a,@b,@c,@d,@e);"

//Update data into accounts table
  2."update accounts set balance=balance - @a where acc_no=@b;"
3. "update accounts set balance=balance + @a where acc_no=@b;"

Queries for Daily Transaction Report

//get transaction report according to date
1."select * from trans_info where date=@a;"

Queries for Search Account Info.

//get accounts info. Of entered account number
1."select * from accounts where acc_no=@a;"

Queries for Deposit

1. "insert into trans_info(to_acc_no,amount,trans_type,date) values(@a,@b,@c,@d);"
2. "update accounts set balance=balance + @a where acc_no=@b;"

Queries for Withdraw

1. "insert into trans_info(to_acc_no,amount,trans_type,date) values(@a,@b,@c,@d);"
2. "update accounts set balance=balance - @a where acc_no=@b;"

Customer.aspx

Queries for Transfer Amount

//Insert data into transaction table
1."insert into trans_info(to_acc_no,frm_acc_no,amount,trans_type,date) values(@a,@b,@c,@d,@e);"

//Update data into accounts table
1."update accounts set balance=balance - @a where acc_no=@b;"
2."update accounts set balance=balance + @a where acc_no=@b;"

Queries for Recharge

1. "insert into trans_info(to_acc_no,frm_acc_no,amount,trans_type,date) values(@a,@b,@c,@d,@e);"

2. "update accounts set balance=balance - @a where acc_no=@b;"

3. "update accounts set balance=balance + @a where acc_no=@b;"

Queries for PayBill

1. "insert into trans_info(to_acc_no,frm_acc_no,amount,trans_type,date) values(@a,@b,@c,@d,@e);"
2. "update accounts set balance=balance - @a where acc_no=@b;"
3. "update accounts set balance=balance + @a where acc_no=@b;"

Queries for Change Password

//First current password is checked and it is correct then new password is updates

1. "select psw from users where acc_no=@a;"
2. "update users set psw= '" + npsw + "' where acc_no='" + uid + "';"

Queries for Account Statement

//grid view data source for account statement

1. <asp:SqlDataSource ID="SqlDataSource1" runat="server"
   ConnectionString="<%$
   ConnectionStrings:bankingdbConnectionString8 %>"

   SelectCommand="SELECT * FROM [trans_info] WHERE
   (([frm_acc_no] = @frm_acc_no) OR ([to_acc_no] = @to_acc_no))">

   //Query for Current Balance where acc_no is getting form current session

   1. "select balance from accounts where acc_no=@a;"