

Platform Used for Interface:

- Netbeans IDE 8.0
- MySQL Sever

Database Structure:

```
c:\wamp\bin\mysql\mysql5.5.8\bin\mysql.exe
Tables_in_t_demo
+-----+
| flag  |
| owner |
| script|
| transaction |
+-----+
4 rows in set (0.00 sec)

mysql> desc owner;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| Name_ID    | int(11)   | NO   | PRI | NULL    | auto_increment |
| Owner_Name | varchar(15)| NO   | PRI | NULL    |
| Contact_No | varchar(15)| NO   |     | NULL    |
| Address    | varchar(15)| NO   |     | NULL    |
+-----+
4 rows in set (0.06 sec)

mysql> desc script;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| Script_ID  | int(11)   | NO   | PRI | NULL    | auto_increment |
| Script_Name| varchar(15)| NO   | PRI | NULL    |
| Field_2a   | varchar(15)| YES  |     | NULL    |
| Field_2b   | varchar(15)| YES  |     | NULL    |
+-----+
4 rows in set (0.02 sec)

mysql> desc transaction;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| Transaction_ID | int(11)   | NO   | PRI | NULL    | auto_increment |
| Owner_Name     | varchar(15)| NO   |     | NULL    |
| Script_Name     | varchar(15)| NO   |     | NULL    |
| Bought_sold     | varchar(15)| NO   |     | NULL    |
| Quantity        | decimal(9,3)| NO   |     | NULL    |
| Rate            | decimal(9,2)| NO   |     | NULL    |
| Brokerage       | decimal(9,2)| NO   |     | NULL    |
| Expenses        | decimal(9,2)| NO   |     | NULL    |
| field_3a        | varchar(15)| YES  |     | NULL    |
| field_3b        | varchar(15)| YES  |     | NULL    |
+-----+
10 rows in set (0.06 sec)

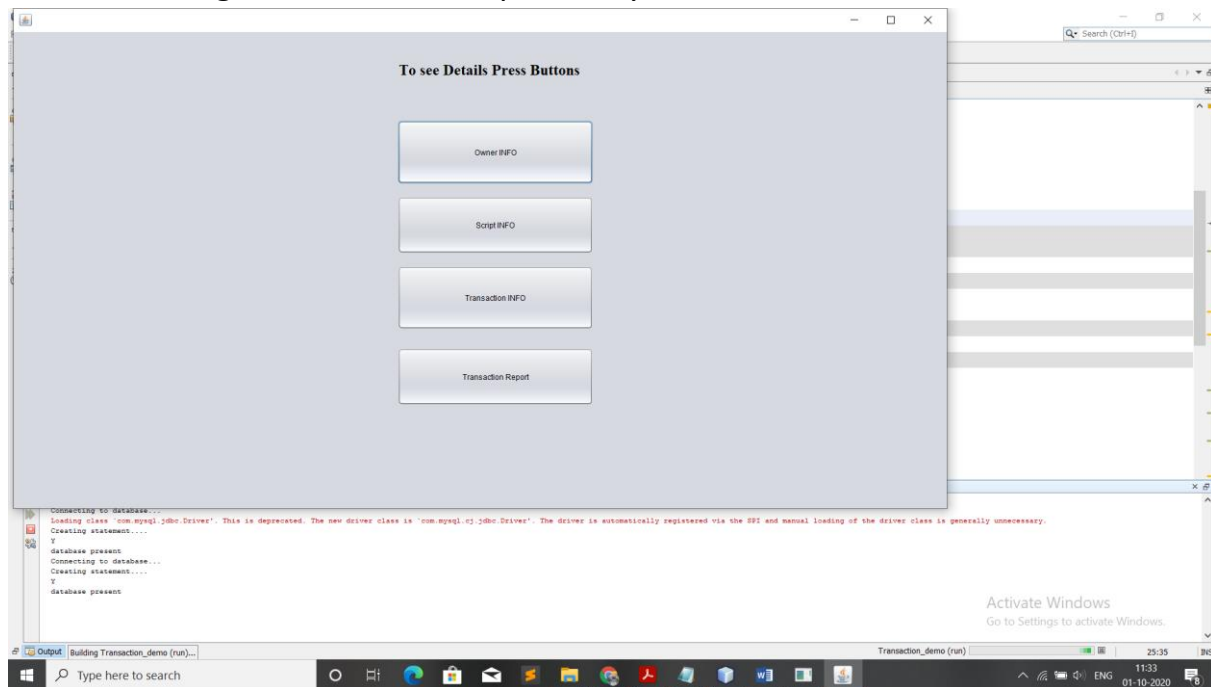
mysql>
```

Work Flow:

- 1) Firstly, the application fire query to checks for database.
- 2) If application is running for first time on your system then it itself fires query for database creation.
 - A) "CREATE DATABASE T_Demo";
 - B) create table OWNER(Name_ID int not null auto_increment,Owner_Name varchar(15) not null,Contact_No varchar(15) not null,Address varchar(15) not null,primary key(Name_ID,Owner_Name));"
 - C) "create table Script(Script_ID int not null auto_increment,Script_Name varchar(15) not null,Field_2a varchar(15),Field_2b varchar(15),primary key(Script_ID,Script_Name));"

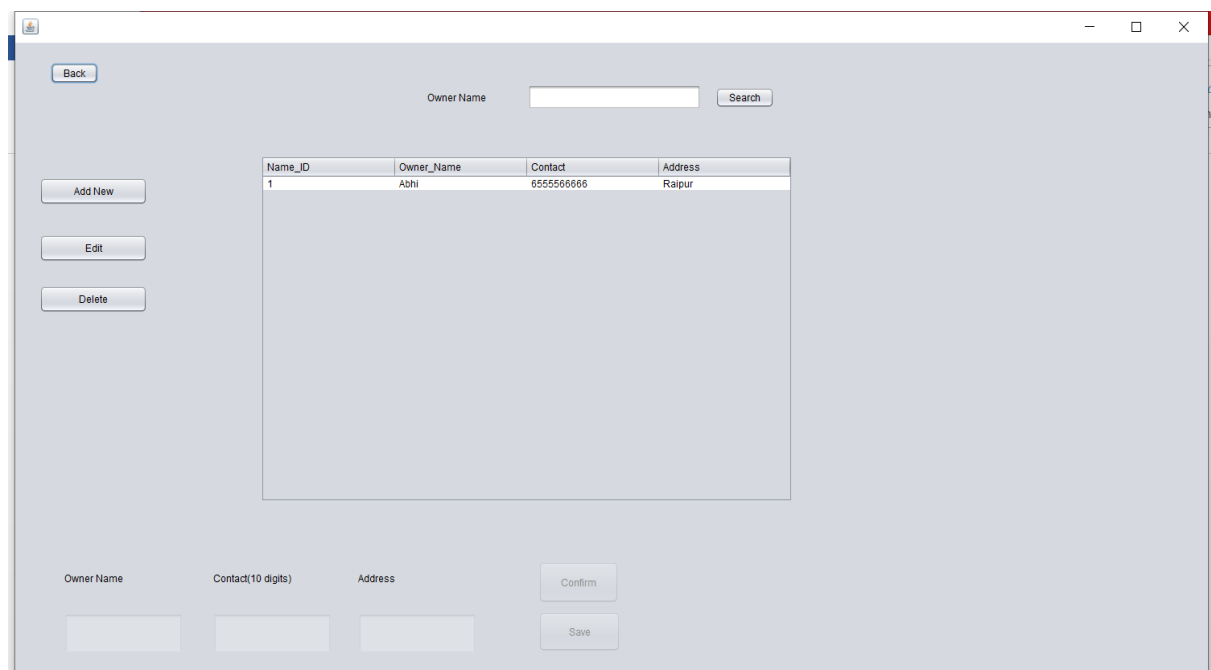
D) "create table Transaction(Transaction_ID int auto_increment,Owner_Name varchar(15) not null,Script_Name varchar(15) not null,Bought_sold varchar(15) not null,Quantity decimal(9,3) not null,Rate decimal(9,2) not null,Brokerage decimal(9,2) not null,Expenses decimal(9,2) not null,field_3a varchar(15),field_3b varchar(15),primary key(Transaction_ID));";

3) Then following screen window opens on your screen.



4) You can browse from here to see Owner_info, Transaction_info , Script_info and Transaction report.

5) Then you get one of following windows :



Back

Script Name

Search

Add New

Edit

Delete

Script_ID	Script_Name	Field_2a	Field_2b
1	JavaScript	Web Servers	Programming
3	PHP		

Script Name

Field_2a

Field_2b

Confirm

Save

Back

Transaction_ID	Owner_Name	Script_Name	Bought_Sold	Quantity	Rate	Brokerage	Expenses	field_3a	Field_3b
1	Abhi	JavaScript	Sold	1.000	50.00	10.00	20.00	gkp	
2	Adarsh	PHP	Sold	2.000	100.00	20.00	40.00	UP	
3	Ankit	Django	Sold	3.000	200.00	50.00	30.00	Vns	
4	Adarsh	JavaScript	Sold	2.000	90.00	10.00	30.00	UP	

Owner_Name

Script_Name

Bought_Sold

Quantity

Rate

Brokerage

Expenses

Field_3a

Field_3b

Save

Confirm

Add New

Edit

Delete

By Owner_name

By Script_name

Search

Transaction_ID	Owner_Name	Script_Name	Quantity	Value
1	Abhi	JavaScript	1.000	80.00000
2	Adarsh	PHP	2.000	260.00000
3	Ankit	Django	3.000	680.00000
4	Adarsh	JavaScript	2.000	220.00000

Buttons: Show all, Group by Owner_Name, Group by Script_Name, By Owner_name, By Script_name, Show

In Owner_info ,Script_info and Transaction_info windows you will functionalities for select ,add ,update and delete option.

While in Transaction report you will see report with one more field added to table and that field contains value(=quantity*rate+brokerage+expenses);

Here are the Queries fired by following windows.

Owner_info queries are:-

1) To Add

```
"insert into owner(Owner_Name,Contact_No,Address)
values('"+name+"','"+Contact+"','"+address+"");"
```

2) To select

```
"select * from owner where Owner_Name='"+str+"';"
```

3) To Update

```
"Update owner set
```

```
Owner_Name='"+name+"',Contact_No='"+Contact+"',Address='"+address+" where
Name_ID="+id+";"
```

4) To delete

```
"Delete from owner where Name_ID="+id+";"
```

Script_info Queries are:-

1) To Add

```
"insert into script(Script_Name,Field_2a,Field_2b)
values('"+name+"','"+field_2a+"','"+field_2b+"');"
```

2) To select

```
"select * from script where Script_Name='"+str+"';"
```

3) To Update

```
"Update script set
Script_Name='"+name+"',Field_2a='"+field_2a+"',Field_2b='"+field_2b+" where
Script_ID="+id+";"
```

4) To delete

```
"Delete from script where Script_ID="+id+";"
```

Transaction_info Queries are:-

1) To Add

```
"insert into
transaction(Owner_Name,Script_Name,Bought_sold,Quantity,Rate,Brokerage,Expenses,field_3a,field_3b)
values('"+o_name+"','"+s_name+"','"+b_s+"','"+qty+"','"+r+"','"+brk+"','"+expenses+"','"+
field_3a+"','"+field_3b+"');"
```

2) To select by owner_name

```
"select * from transaction where Owner_Name='"+str1+"';"
```

3) To Update

```
"Update transaction set
Owner_Name='"+o_name+"',Script_Name='"+s_name+"',Bought_sold='"+b_s+"',Quantity='"+qty+"',Rate='"+r+"',Brokerage='"+brk+"',Expenses='"+expenses+"',field_3a='"+field_3a+"',field_3b='"+field_3b+" where Transaction_ID="+id+";"
```

4) To delete

```
"Delete from transaction where Transaction_ID="+id+";"
```

5) To select by script_name

```
"select * from transaction where script_name='"+str2+"';"
```

Transaction report queries are:-

1) To see all transactions report

```
"select  
Transaction_ID,Owner_Name,Script_Name,Quantity,(quantity*rate+brokerage+expenses) as value from transaction;"
```

2) To see report grouped by owner name

```
"select Owner_Name,sum(Quantity) as qty,sum(quantity*rate+brokerage+expenses) as value from transaction group by Owner_Name;"
```

3) To see report grouped by Script name

```
"select Owner_Name,sum(Quantity) as qty,sum(quantity*rate+brokerage+expenses) as value from transaction group by Script_Name;"
```

4) To see report of all transactions of any owner:-

```
"select  
Transaction_ID,Owner_Name,Script_Name,Quantity,(quantity*rate+brokerage+expenses) as value from transaction where Owner_Name='"+str1+"';";
```

5) To see report of all transaction with given script name:-

```
"select  
Transaction_ID,Owner_Name,Script_Name,Quantity,(quantity*rate+brokerage+expenses) as value from transaction where Script_Name='"+str2+"';";
```