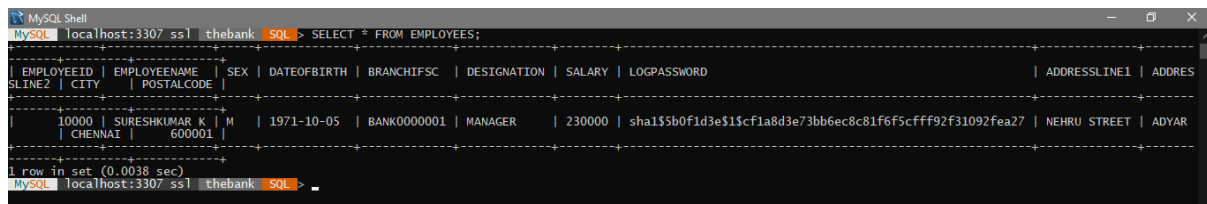


## ADDING EMPLOYEES, CUSTOMERS AND BRANCHES

### ADDING EMPLOYEES

After landing into the dashboard we start adding records. Now let's start adding employees.

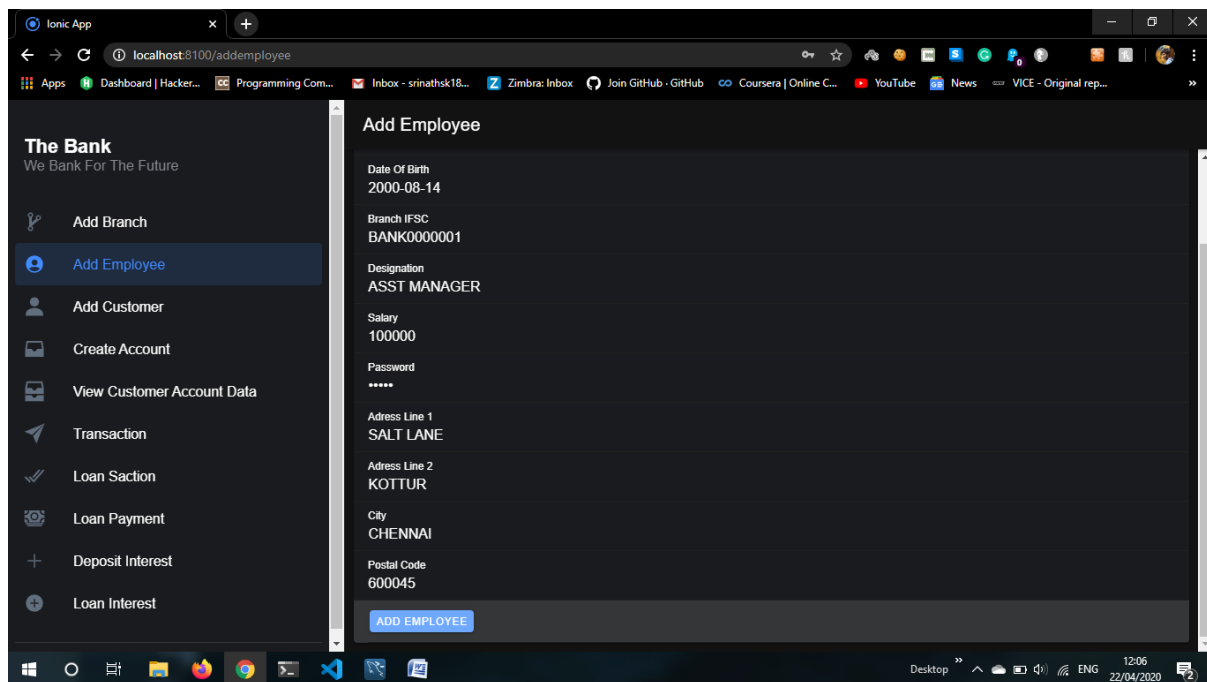
Initially Employees table contains only the record we added during setup.



A screenshot of a MySQL Shell window showing the output of a SELECT query on the EMPLOYEES table. The table has columns: EMPLOYEEID, EMPLOYEENAME, SEX, DATEOFBIRTH, BRANCHIFSC, DESIGNATION, SALARY, LOGPASSWORD, ADDRESSLINE1, and ADDRESS. The output shows one row with the following data: EMPLOYEEID: 10000, EMPLOYEENAME: SURESHKUMAR K, SEX: M, DATEOFBIRTH: 1971-10-05, BRANCHIFSC: BANK0000001, DESIGNATION: MANAGER, SALARY: 230000, LOGPASSWORD: sha1\$5b0f1d3e\$1\$c1a8d3e73bb6ec8c81f6f5cfff92f31092fea27, ADDRESSLINE1: NEHRU STREET, ADDRESS: ADYAR. The output also indicates '1 row in set (0.0038 sec)'.

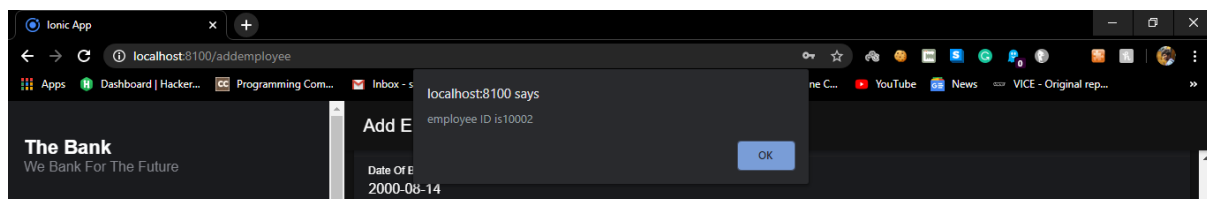
EMPLOYEEID	EMPLOYEENAME	SEX	DATEOFBIRTH	BRANCHIFSC	DESIGNATION	SALARY	LOGPASSWORD	ADDRESSLINE1	ADDRESS
10000	SURESHKUMAR K	M	1971-10-05	BANK0000001	MANAGER	230000	sha1\$5b0f1d3e\$1\$c1a8d3e73bb6ec8c81f6f5cfff92f31092fea27	NEHRU STREET	ADYAR

Now we add employees. We fill in the fields and click 'add employees'.



A screenshot of a web application titled 'The Bank' with the tagline 'We Bank For The Future'. The left sidebar contains a menu with options: Add Branch, Add Employee (selected), Add Customer, Create Account, View Customer Account Data, Transaction, Loan Saction, Loan Payment, Deposit Interest, and Loan Interest. The main content area is titled 'Add Employee' and contains a form with the following fields: Date Of Birth (2000-08-14), Branch IFSC (BANK0000001), Designation (ASST MANAGER), Salary (100000), Password (\*\*\*\*\*), Address Line 1 (SALT LANE), Address Line 2 (KOTTUR), City (CHENNAI), and Postal Code (600045). At the bottom of the form is a blue button labeled 'ADD EMPLOYEE'.

After the employee has been added we get an alert of the EmployeeID that has been allotted for that employee and the employee will have to use the ID to login with her password. The employee chooses the password during adding of record.



A screenshot of the 'Add Employee' form in the 'The Bank' application. An alert dialog box is displayed in the foreground, showing the message 'localhost:8100 says employee ID is 10002' and an 'OK' button. The form in the background is partially obscured by the alert box.

The Server console after addition of employee.

```
npm cmd - node index.js
E:\WorkSpace\._DBMS_THE_BANK\NodeJS\server>node index.js
Server listening on port 3000!
Employee 10000 is logged in...
Employee successfully added and was allotted the EmployeeID 10002...
```

Now we proceed to add many more employees

```
npm cmd - node index.js
E:\WorkSpace\._DBMS_THE_BANK\NodeJS\server>node index.js
Server listening on port 3000!
Employee 10000 is logged in...
Employee successfully added and was allotted the EmployeeID 10002...
Employee successfully added and was allotted the EmployeeID 10003...
Employee successfully added and was allotted the EmployeeID 10004...
Employee successfully added and was allotted the EmployeeID 10005...
Employee successfully added and was allotted the EmployeeID 10006...
Employee successfully added and was allotted the EmployeeID 10007...
Employee successfully added and was allotted the EmployeeID 10008...
Employee successfully added and was allotted the EmployeeID 10009...
```

MySQL Shell

localhost:3307 ssl thebank SQL> SELECT \* FROM EMPLOYEES;

EMPLOYEEID	EMPLOYEENAME	SEX	DATEOFBIRTH	BRANCHID	DESIGNATION	SALARY	LOGPASSWORD	ADDRESSLINE1	ADDRESSLINE2	CITY	POSTALCODE
10000	SURESHKUMAR K	M	1971-10-05	BANK0000001	MANAGER	230000	sha1\$5b0f1d3e\$1\$cf1a8d3e73bb6ec8c81f6f5cfff92f31092fea27	NEHRU STREET		CHENNAI	600001
10001	SURENATH S	M	2000-05-28	BANK0000001	ASST MANAGER	100000	sha1\$d75c21f9\$1\$efb41438ae57754dcd2f64fc9b7801ca137038ac	MARKET STEERT		CHENNAI	600027
10002	NIRANJAN K	M	2000-08-14	BANK0000001	ASST MANAGER	100000	sha1\$b99f2ebf\$1\$6395d9c6a998264167ad4e0fc30ee61c9469fab3	SALT LANE		CHENNAI	600045
10003	MARI SUDHAN A C	M	2000-11-16	BANK0000001	ASST MANAGER	100000	sha1\$52bf7c17\$1\$d0b69dee5f345daf73fdb55763a9455e126159	SALT LANE		CHENNAI	600035
10004	AADITYA NARESH	M	2000-05-01	BANK0000001	ASST MANAGER	100000	sha1\$aa4d0231\$1\$1b77f2341f3304a9231867475eebbe24c6070be5	USMAN ROAD		CHENNAI	600017
10005	SIBI AKASH M	M	2000-10-29	BANK0000001	ASST MANAGER	100000	sha1\$8ee6324f\$1\$76cc50675dff1e24deb3d7a26b7f9253328b014	1ST STREET		CHENNAI	600025
10006	NAREN T P	M	2000-03-03	BANK0000001	CASHIER	70000	sha1\$afe61557\$1\$9c7352ec27fe885b163cd138e996bb5cb6871033	NEHRU NAGAR		CHENNAI	600037
10007	MITHUN RAAM	M	2000-06-06	BANK0000001	CASHIER	70000	sha1\$5c7075eb7\$1\$5e438b75851f77c5ea188f749f9cad61f1d1f8d8	SALT LAKE		CHENNAI	600037
10008	JEFFREY SAMUEL	M	2000-06-06	BANK0000001	CASHIER	70000	sha1\$f4d8a00f\$1\$6620b94b83fde6bf241f1f9b19a6c44626e5e295	SALT LAKE		CHENNAI	600045
10009	JEFFREY SAMUEL	M	2000-06-06	BANK0000001	CASHIER	70000	sha1\$0bb0d8d4\$1\$7958aee0710beabba36a3d8ee6c8d8ab7ba3fdbe	SALT LAKE		CHENNAI	600045

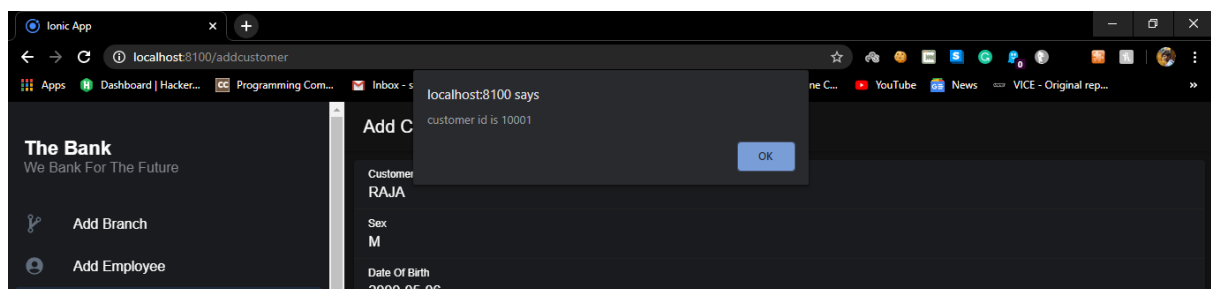
10 rows in set (0.0006 sec)

localhost:3307 ssl thebank SQL>

We can observe that the entries have been logged in the console. We can see that the employee data has been entered in the employee table of the database.

## ADDING CUSTOMERS

Now we add some customers to the customers table of database.



After we fill in the form and click add customer we get the customer ID for the customer which will be used in all correspondence to that particular customer.

Adding customer also makes logs on server console

```
Server listening on port 3000!  
Customer was successfully added and was given the CustomerID 10008...  
Customer was successfully added and was given the CustomerID 10009...  
Customer was successfully added and was given the CustomerID 10010...  
Customer was successfully added and was given the CustomerID 10011...  
|
```

Now we observe the table in the database

MySQL Shell

```
MySQL localhost:3307 ssl thebank SQL > SELECT * FROM CUSTOMERS;
```

CUSTOMERID	CUSTOMERNAME	SEX	DATEOFBIRTH	ADDRESSLINE1	ADDRESSLINE2	CITY	POSTALCODE
10000	SURESHKUMAR K	M	1971-10-05	NEHRU STREET	ADYAR	CHENNAI	600001
10001	RAJA	M	2000-05-06	SALT LAKE	CHROMPET	CHENNAI	600001
10002	MANI	M	1990-04-18	MAIN STREET	GUINDY	CHENNAI	600025
10003	SARAH G	F	1990-04-05	GANDHI NAGAR	KOTTUR	CHENNAI	600015
10004	CHRISTIE T	F	1995-02-02	NEHRU STREET	VELACHERY	CHENNAI	600007
10005	MONISHA J	F	1995-03-27	PALANI STREET	OMR	CHENNAI	600007
10006	MANOJ J	M	1995-03-27	GEORGE NAGAR	ECR	CHENNAI	600034
10007	SRINATH S	M	2000-05-28	GANDHI NAGER	VELACHERY	CHENNAI	600017
10008	KRIPASHANKAR T	M	2000-10-09	MAIN ROAD	KORATUR	CHENNAI	600028
10009	SHAHID S	M	2000-11-19	CEG HOSTEL	GUINDY	CHENNAI	600025
10010	ARSHAK SHAN	M	2000-11-19	CEG HOSTEL	GUINDY	CHENNAI	600025
10011	RANGAN	M	1991-06-04	2ND STREET	VADAPALANI	CHENNAI	600037

12 rows in set (0.0008 sec)

```
MySQL localhost:3307 ssl thebank SQL >
```

## ADDING BRANCHES

We add branches to our bank identified by IFSCCode. On adding a branch the designation of the employee whose EmployeeID is added as ManagerID is changed to MANAGER by a trigger.

MySQL Shell

```
MySQL localhost:3307 ssl thebank SQL > SELECT * FROM BRANCHES;
```

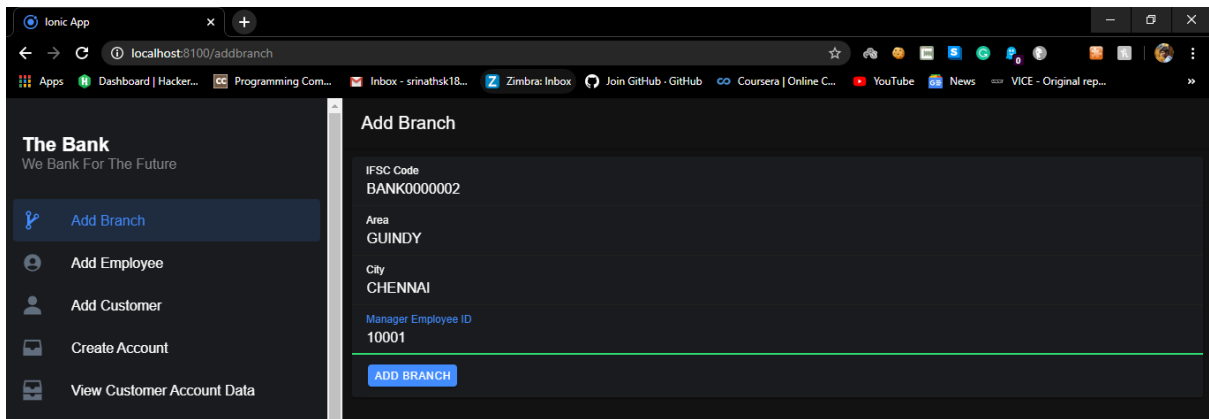
IFSCCODE	AREA	CITY	MANAGERID
BANK0000001	ANNA UNIVERSITY	CHENNAI	10000

1 row in set (0.0855 sec)

```
MySQL localhost:3307 ssl thebank SQL > SELECT * FROM EMPLOYEES WHERE EMPLOYEEID=10001\G;
```

```
***** 1. row *****  
EMPLOYEEID: 10001  
EMPLOYEEENAME: SRINATH S  
SEX: M  
DATEOFBIRTH: 2000-05-28  
BRANCHIFSC: BANK0000001  
DESIGNATION: ASST MANAGER  
SALARY: 100000  
LOGPASSWORD: sha1$d75c21f9$1$efb41438ae57754dcd2f64fc9b7801ca137038ac  
ADDRESSLINE1: MARKET STEERT  
ADDRESSLINE2: VELACHERY  
CITY: CHENNAI  
POSTALCODE: 600027  
1 row in set (0.0007 sec)  
ERROR: 1065 (42000): Query was empty  
MySQL localhost:3307 ssl thebank SQL >
```

Currently we have only one branch and designation of employee '10001' is ASST MANAGER. We add a branch with employee '10001' as its manager.



The last log denotes the addition the branch 'BANK0000002'.

```

E:\Workspace\._DBMS_THE_BANK\NodeJS\server>node index.js
Server listening on port 3000!
Customer was successfully added and was given the CustomerID 10008...
Customer was successfully added and was given the CustomerID 10009...
Customer was successfully added and was given the CustomerID 10010...
Customer was successfully added and was given the CustomerID 10011...
Branch BANK0000002 added successfully...
  
```

```

MySQL Shell
MySQL localhost:3307 ssl thebank SQL> SELECT * FROM BRANCHES;
+-----+-----+-----+-----+
| IFSCCODE | AREA | CITY | MANAGERID |
+-----+-----+-----+-----+
| BANK0000001 | ANNA UNIVERSITY | CHENNAI | 10000 |
| BANK0000002 | GUINDY | CHENNAI | 10001 |
+-----+-----+-----+-----+
2 rows in set (0.0007 sec)

MySQL localhost:3307 ssl thebank SQL> SELECT * FROM EMPLOYEES WHERE EMPLOYEEID=10001\G;
***** 1. row *****
EMPLOYEEID: 10001
EMPLOYEEENAME: SRINATH S
SEX: M
DATEOFBIRTH: 2000-05-28
BRANCHIFSC: BANK0000002
DESIGNATION: MANAGER
SALARY: 100000
LOGPASSWORD: sha1$d75c21f9$1$efb41438ae57754dcd2f64fc9b7801ca137038ac
ADDRESSLINE1: MARKET STEERT
ADDRESSLINE2: VELACHERY
CITY: CHENNAI
POSTALCODE: 600027
1 row in set (0.0005 sec)
ERROR: 1065 (42000): Query was empty
MySQL localhost:3307 ssl thebank SQL>
  
```

We can observe from the database that the branch was added and the designation of employee '10001' was automatically updated to 'MANAGER' IFSCCode is updated to the new branch by a trigger.(Refer Setting Up Triggers for info on the trigger).