

## OOP Bank system integration test results

This document shows the data in database after running our designed test cases.

### 1. Customer

Here is the data in 'customer' table after we manually created them from UI::

```
mysql> select *
-> from customer;
```

id	name	address
1	Tom	Seattle
2	Jerry	Kenmore
3	Adam Redmond	Shoreline
4	Susan	Bellevue
5	Lisa Hiller	Kirkland
6	Sam Hiller	Kirkland
7	Alice	Seattle

```
7 rows in set (0.00 sec)
```

### 2. Account and account transaction (deposit/withdraw)

Here is the data after we

- created the accounts (from UI)
- performed the account deposit/withdraw transactions (from UI)

#### 1) Data in 'bankaccount' table, which contains basic account information and balance:

```
mysql> select * from bankaccount;
```

account_id	account_no	account_type	balance	intrst_rate	cr_date
1	20701	checking	500	NULL	2022-02-11
2	30702	savings	2000	0.01	2022-02-11
3	20703	checking	200	NULL	2022-02-11
12	30712	savings	1500	0.02	2022-02-11
13	30713	savings	600	0.01	2022-02-11
14	30714	savings	2200	0.01	2022-02-11
15	20715	checking	1200	NULL	2022-02-11
16	30716	savings	1999	0.01	2022-02-11
17	30717	savings	600	0.01	2022-02-11
18	30718	savings	1100	0.01	2022-02-11
19	20719	checking	600	NULL	2022-02-11
20	30720	savings	400	0.01	2022-02-11
21	20721	checking	0	NULL	2022-02-11

- 2) Data in 'acc\_transaction' table (which contains transaction details for deposit/withdrawal):

```
mysql> select *
-> from acc_transaction;
```

id	account_no	type	amount	cr_date
100	20721	d	300	2022-02-12 07:49:33
101	20721	w	600	2022-02-12 07:50:01
102	20721	w	700	2022-02-12 07:50:21
103	30714	d	500	2022-02-12 07:51:16
104	30714	d	700	2022-02-12 07:51:37
105	20715	d	800	2022-02-12 07:52:17
106	20715	w	100	2022-02-12 07:52:32
107	30718	d	1000	2022-02-12 07:53:34
108	20719	d	500	2022-02-12 07:54:49
109	20719	w	200	2022-02-12 07:55:03
110	30718	w	400	2022-02-13 06:58:47

Test starts here

- 3) Savings account total balance by customer:

```
mysql> select c.id, acc.account_type, sum(acc.balance)
-> from bankaccount acc,
->      customer c,
->      ass_customer_account ca
-> where ca.customer_id = c.id
-> and ca.account_id = acc.account_id
-> and acc.account_type like 'savi%'
-> group by c.id, acc.account_type
-> ;
```

id	account_type	sum(acc.balance)
1	savings	2000
2	savings	2100
3	savings	2200
5	savings	1999
6	savings	1700
7	savings	400

6 rows in set (0.07 sec)

### 3. Employee data

Two sample employees were created:

```
mysql> select *
-> from employee;
```

id	name	login	password
1	Lucas	a0746	746
2	Henry	a0747	747

### 4. Credit card approval

- 1) Data in credit card application queue, after card applications have been generated (using sql).

Note: status = 'new', which means they will be processed

```
mysql> select * from card_application;
```

id	customer_id	status	note	apply_date	apprv_date	employee_id	card_id
62	1	new	NULL	2022-02-16	NULL	NULL	NULL
63	2	new	NULL	2022-02-16	NULL	NULL	NULL
64	3	new	NULL	2022-02-16	NULL	NULL	NULL
65	4	new	NULL	2022-02-16	NULL	NULL	NULL
66	5	new	NULL	2022-02-16	NULL	NULL	NULL
67	6	new	NULL	2022-02-16	NULL	NULL	NULL

2) After the successful credit card approval process, where 3 requests were rejected and 3 were approved

.Data in credit card application queue (Table 'card\_applicaiton').

Note: 'Employee id' value is 2, which was because we logged as 'a0747' to run the process and this employee's id is 2.

```
mysql> select * from card_application;
```

id	customer_id	status	note	apply_date	apprv_date	employee_id	card_id
62	1	approved	NULL	2022-02-16	2022-02-16	2	28
63	2	approved	NULL	2022-02-16	2022-02-16	2	29
64	3	approved	NULL	2022-02-16	2022-02-16	2	30
65	4	rejected	Rejected due to total savings<2000	2022-02-16	2022-02-16	2	NULL
66	5	rejected	Rejected due to total savings<2000	2022-02-16	2022-02-16	2	NULL
67	6	rejected	Rejected due to total savings<2000	2022-02-16	2022-02-16	2	NULL

.Data in 'creditcard' table:

Note:

- 1) 3 credit cards were created.
- 2) The 'id' values match 'card\_id' in 'card\_applicaiton' table
- 3) Employee id value was 2, because we logged as 'a0747' to run the process.

```
mysql> select * from creditcard;
```

id	card_no	bank_name	exp_date	customer_id	cardholder_name	credit_limit	employee_id	cr_date
28	88000762	New Life Banks	2023-02-16	1	Tom	1000	2	2022-02-16
29	88000763	New Life Banks	2023-02-16	2	Jerry	1000	2	2022-02-16
30	88000764	New Life Banks	2023-02-16	3	Adam Redmond	1000	2	2022-02-16