ASSIGNMENT#2

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QUESTION:1

TASK 1:

```
MariaDB [bank]> create view customer_info as
    -> select * from customer
    -> where cust_id != all (select cust_id from officer);
Query OK, 0 rows affected (0.030 sec)

MariaDB [bank]> select * from customer_info;

| CUST_ID | ADDRESS | CITY | CUST_TYPE_CD | FED_ID | POSTAL_CODE | STATE |

| 1 | 47 Mockingbird Ln | Lynnfield | I | 111-11-1111 | 01940 | MA |
| 2 | 372 Clearwater Blvd | Woburn | I | 222-22-2222 | 01801 | MA |
| 3 | 18 Jessup Rd | Quincy | I | 333-33-33333 | 02169 | MA |
| 4 | 12 Buchanan Ln | Waltham | I | 444-44-4444 | 02451 | MA |
| 5 | 2341 Main St | Salem | I | 555-55-5555 | 03079 | NH |
| 6 | 12 Blaylock Ln | Waltham | I | 666-66-6666 | 02451 | MA |
| 7 | 29 Admiral Ln | Wilmington | I | 777-77777 | 01887 | MA |
| 8 | 472 Freedom Rd | Salem | I | 888-88-8888 | 03079 | NH |
| 9 | 29 Maple St | Newton | I | 999-99-9999 | 02458 | MA |
| 9 rows in set (0.001 sec)
```

TASK 2:

Available Balanc: <- uery OK, 0 rows affecte		mer natural joi		ate, sum(avail p by cust_id;		, 22
ariaDB [bank]> select *						
address	city	cust_type_cd				Available Balance
47 Mockingbird Ln	Lynnfield	I	111-11-1111	01940	MA	4557.75
372 Clearwater Blvd	Woburn	I	222-22-2222	01801	MA	2458.02001953125
18 Jessup Rd	Quincy	I	333-33-3333	02169	MA	3270.25
12 Buchanan Ln	Waltham	I	444-44-4444	02451	MA	6788.9798583984375
2341 Main St	Salem	I	555-55-5555	03079	NH	2237.969970703125
12 Blaylock Ln	Waltham	I	666-66-6666	02451	MA	10122.370002746582
29 Admiral Ln	Wilmington	I	777-77-7777	01887	MA	5000
472 Freedom Rd	Salem	I	888-88-888	03079	NH	3875.179931640625
29 Maple St	Newton	I	999-99-9999	02458	MA	10971.219802856445
7 Industrial Way	Salem	В	04-1111111	03079	NH	23575.119140625
287A Corporate Ave	Wilmington	В	04-2222222	01887	MA	9345.5498046875
789 Main St	Salem	В	04-3333333	03079	NH	38552.05078125
4772 Presidential Way	Quincy	В	04-444444	02169	MA	50000

Task 3:

ery OK, 0 r	ows affected (0.6	055 sec)								
iaDB [bank]> select * from	customer_acc	ounts;							
ACCOUNT_ID	AVAIL_BALANCE	CLOSE_DATE	LAST_ACTIVITY_DATE	OPEN_DATE	PENDING_BALANCE	STATUS	CUST_ID	OPEN_BRANCH_ID	OPEN_EMP_ID	PRODUCT_CD
23	1500	NULL	2004-06-30	2004-06-30	1500	ACTIVE	9	1	1	CD
	1057.75	NULL	2005-01-04	2000-01-15	1057.75	ACTIVE	j 1 j	2	10	CHK
	1057.75	NULL	2004-11-30	2002-11-23	1057.75	ACTIVE	j 3 j		13	CHK
10	534.12	NULL	2005-01-03	2003-09-12	534.12	ACTIVE	4	1	1	CHK
14	122.37	NULL	2004-11-29	2002-08-24	122.37	ACTIVE	j 6 j	1	1	CHK
21	125.67	NULL	2004-12-15	2003-07-30	125.67	ACTIVE	j 9 j	1		CHK
	500	NULL	2004-12-19	2000-01-15	500	ACTIVE	1 1	2	10	SAV
	200	NULL	2004-12-11	2001-03-12	200	ACTIVE	2		10	SAV
11	767.77	NULL	2004-10-24	2000-01-15	767.77	ACTIVE	4			SAV
19	387.99	NULL	2004-10-12	2001-05-23	387.99	ACTIVE	8	4	16	SAV

Task 4:

```
| Number | Control | Contr
```

Question 2:

Task 1:

TABLE 1:

```
MariaDB [(none)]> create user 'p190067'@localhost identified by 'fast123';
Query OK, 0 rows affected (0.121 sec)
```

```
MariaDB [bank]> insert into product_type values("NEW1","sonic");
Query OK, 1 row affected (0.092 sec)
MariaDB [bank]> insert into product_type values("NEW2","shadow");
Query OK, 1 row affected (0.055 sec)
```

Table 2:

```
MariaDB [bank]> insert into product values("AT","2222-22-22","0000-00-00","NEW1","Loan");
Query OK, 1 row affected, 2 warnings (0.087 sec)
```

```
MariaDB [bank]> insert into product values("AK","4444-22-44","2323-23-23","NEW2","Loan");
Query OK, 1 row affected, 2 warnings (0.039 sec)
```

```
MariaDB [bank]> insert into product values("TK","5555-22-55","2313-26-23","NEW3","Loan");
Query OK, 1 row affected, 2 warnings (0.062 sec)
```

```
MariaDB [bank]> update officer set first_name="abdullah" where cust_id=11;
Query OK, 1 row affected (0.108 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [bank]> update officer set first_name="tahir" where cust_id=10;
Query OK, 1 row affected (0.078 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [bank]> update officer set first_name="khurshid" where cust_id=13;
Query OK, 1 row affected (0.039 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [bank]> select * from officer;
  OFFICER_ID | END_DATE | FIRST_NAME | LAST_NAME | START_DATE | TITLE
                                                                                                                | CUST_ID
                                                                             1995-05-01
                                                                                                President
                                                                                                                          11
12
13
                                       abdullah
Carl
khurshid
                      NULL
NULL
                                                          Hardy
Lutz
                                                                            2001-01-01 |
2002-06-30 |
1999-05-01 |
                                                                                                President
President
                                                           Cheswick
                                                                                                President
  rows in set (0.000 sec)
```

Table 4

```
MariaDB [bank]> update officer set first_name="abdullah" where cust_id=11;
Query OK, 1 row affected (0.108 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [bank]> update officer set first_name="tahir" where cust_id=10;
Query OK, 1 row affected (0.078 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [bank]> update officer set first_name="khurshid" where cust_id=13;
Query OK, 1 row affected (0.039 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [bank]> select * from officer;
  OFFICER_ID | END_DATE | FIRST_NAME | LAST_NAME | START_DATE | TITLE
                                                                                                                       | CUST_ID |
                                         tahir
abdullah
                                                                                  1995-05-01
                                                                                                      President
                                                                                 2001-01-01 |
2002-06-30 |
1999-05-01 |
                       NULL
NULL
                                                                                                      President
President
                                                              Hardy
Lutz
                                          Carl
                                         khurshid
                                                                                                      President
                       NULL
                                                              Cheswick
   rows in set (0.000 sec)
```

Table 5

```
MariaDB [bank]> select * from individual;
  BIRTH_DATE | FIRST_NAME | LAST_NAME | CUST_ID |
 1972-04-22 | James
1968-08-15 | Susan
                                                1
                             Hadley
                                                2
                             Tingley
  1958-02-06 | Frank
                            Tucker
  1966-12-22 | John
                            Hayward
                                                4
                                                5
  1971-08-25 | Charles
                            Frasier
  1962-09-14 John
                            Spencer
                                                6
  1947-03-19 | Margaret
                                                7
                            Young
  1977-07-01 | Louis
                            Blake
                                                8
 1968-06-16 | Richard
                                                9
                           Farley
9 rows in set (0.029 sec)
MariaDB [bank]> delete from individual where cust id=5
Query OK, 1 row affected (0.040 sec)
MariaDB [bank]> delete from individual where cust_id=6;
Query OK, 1 row affected (0.043 sec)
MariaDB [bank]> delete from individual where cust id=7;
Query OK, 1 row affected (0.039 sec)
MariaDB [bank]> select * from individual;
 BIRTH_DATE | FIRST_NAME | LAST_NAME | CUST_ID
 1972-04-22 | James
1968-08-15 | Susan
1958-02-06 | Frank
                            Hadley
                             Tingley
                                                2
                             Tucker
  1966-12-22 | John
                            Hayward
                                                4
  1977-07-01 | Louis
                            Blake
                                                8
                          Farley
  1968-06-16 | Richard
                                                9
 rows in set (0.000 sec)
```

Task 2:

INSERT

```
MariaDB [(none)]> create user 'officer'@'localhost' identified by 'fast123'
->;
Query OK, 0 rows affected (0.020 sec)

MariaDB [(none)]> grant insert, update on bank.product to 'officer'@'localhost';
Query OK, 0 rows affected (0.037 sec)

MariaDB [bank]> insert into product values("AT","2222-22-22","0000-00-00","NEW1","Loan");
Query OK, 1 row affected, 2 warnings (0.087 sec)

MariaDB [bank]> insert into product values("AK","4444-22-44","2323-23-23","NEW2","Loan");
Query OK, 1 row affected, 2 warnings (0.039 sec)
```

```
MariaDB [bank]> insert into product values("TK","5555-22-55","2313-26-23","NEW3","Loan");
Query OK, 1 row affected, 2 warnings (0.062 sec)
```

UPDATE:

```
MariaDB [bank]> update product set name="NEW" where product_CD="AT";
Query OK, 1 row affected (0.049 sec)
Kows matched: 1 changed: 1 Wannings: 0

MariaDB [bank]> update product set name="NEW2" where product_CD="AK";
Query OK, 0 rows affected (0.000 sec)
Kows matched: 1 changed: 0 Warnings: 0

MariaDB [bank]> update product set name="NEW3" where product_CD="TK";
Query OK, 0 rows affected (0.000 sec)
Kows matched: 1 changed: 0 Warnings: 0

MariaDB [bank]> update product set name="NEW3" where product_CD="TK";
Query OK, 0 rows affected (0.000 sec)
Kows matched: 1 changed: 0 Warnings: 0

MariaDB [bank]> select * from *product;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '"
MariaDB [bank]> select * from product;

PPRODUCT_CD DATE_OFFERDD DATE_RETIRED NAME PRODUCT_TYPE_CD

AK 0000-00-00 0000-00-00 NEW Loan
AUT 2000-01-01 NULL aircraft account
AT 0000-01-01 NULL BUSINESS line of credit LOAN
BUS 2000-01-01 NULL cart
CD 2000-01-01 NULL certificate of deposit ACCOUNT
CD 2000-01-01 NULL certificate of deposit ACCOUNT
CMK 2000-01-01 NULL loan
NULL decking ACCOUNT ACCOUNT
JOHN 1000-01-01 NULL saving ACCOUNT ACCOUNT
NMT 2000-01-01 NULL savings ACCOUNT ACCOUNT
NMT 2000-01-01 NULL savings ACCOUNT ACCOUNT
SAV 2000-01-01 NULL sav
```