

```
mysql> CREATE DATABASE BANK_ACC;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> USE BANK_ACC;
Database changed
```

```
mysql> CREATE TABLE ACCOUNT(acc_no INT PRIMARY KEY, acc_name VARCHAR(28), address VARCHAR(28), pan VARCHAR(28), acc_type VARCHAR(28), balance INT, phone INT);
Query OK, 0 rows affected (0.24 sec)
```

```
mysql> DESC ACCOUNT;
```

Field	Type	Null	Key	Default	Extra
acc_no	int(11)	NO	PRI	NULL	
acc_name	varchar(28)	YES		NULL	
address	varchar(28)	YES		NULL	
pan	varchar(28)	YES		NULL	
acc_type	varchar(28)	YES		NULL	
balance	int(11)	YES		NULL	
phone	int(11)	YES		NULL	

7 rows in set (0.01 sec)

```
mysql> CREATE TABLE TRANSACTION(trans_id INT PRIMARY KEY, acc_no INT, trans_date DATE, amount INT, trans_type VARCHAR(28));
Query OK, 0 rows affected (0.36 sec)
```

```
mysql> DESC TRANSACTION;
```

Field	Type	Null	Key	Default	Extra
trans_id	int(11)	NO	PRI	NULL	
acc_no	int(11)	YES		NULL	
trans_date	date	YES		NULL	
amount	int(11)	YES		NULL	
trans_type	varchar(28)	YES		NULL	

5 rows in set (0.01 sec)

```
mysql> INSERT INTO ACCOUNT VALUES(201, 'Ram', 'Address 1', 'DKUPGJS201', 'current', 4300, 2255), (202, 'Shyam', 'Address 2', 'DKUPGJS202', 'current', 200000, 3355), (203, 'Rex', 'Address 3', 'DKUPGJS203', 'savings', 10000, 4455), (204, 'Tex', 'Address 4', 'DKUPGJS204', 'current', 1000, 5555), (205, 'Lex', 'Address 5', 'DKUPGJS205', 'savings', 300000, 6655), (206, 'Nex', 'Address 6', 'DKUPGJS206', 'current', 500000, 7755), (207, 'John', 'Address 7', 'DKUPGJS207', 'current', 6000, 7755), (208, 'Jake', 'Address 8', 'DKUPGJS208', 'savings', 500000, 8855), (209, 'Jin', 'Address 9', 'DKUPGJS209', 'current', 7000, 9955), (210, 'Jim', 'Address 10', 'DKUPGJS210', 'current', 1500, 0066), (211, 'Sully', 'Address 11', 'DKUPGJS211', 'savings', 70000, 1166);
Query OK, 11 rows affected (0.03 sec)
Records: 11 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM ACCOUNT;
```

acc_no	acc_name	address	pan	acc_type	balance	phone
201	Ram	Address 1	DKUPGJS201	current	4300	2255
202	Shyam	Address 2	DKUPGJS202	current	200000	3355
203	Rex	Address 3	DKUPGJS203	savings	10000	4455
204	Tex	Address 4	DKUPGJS204	current	1000	5555
205	Lex	Address 5	DKUPGJS205	savings	300000	6655
206	Nex	Address 6	DKUPGJS206	current	500000	7755
207	John	Address 7	DKUPGJS207	current	6000	7755
208	Jake	Address 8	DKUPGJS208	savings	500000	8855
209	Jin	Address 9	DKUPGJS209	current	7000	9955
210	Jim	Address 10	DKUPGJS210	current	1500	66
211	Sully	Address 11	DKUPGJS211	savings	70000	1166

11 rows in set (0.00 sec)

```
mysql> INSERT INTO TRANSACTION VALUES(0001, 201, '2019-5-3', 4300, 'credit'), (0002, 201, '2020-5-3', 3000, 'debit'), (0003, 202, '2018-5-3', 100000, 'credit'), (0004, 203, '2022-5-12', 5000, 'debit'), (0005, 204, '2017-4-3', 1000, 'credit'), (0006, 205, '2019-5-3', 3000, 'credit'), (0007, 205, '2022-5-10', 10000, 'debit'), (0008, 206, '2019-8-14', 60000, 'credit'), (0009, 207, '2022-5-12', 300, 'debit'), (0010, 208, '2020-8-18', 100000, 'debit'), (0011, 208, '2021-4-12', 5000, 'debit'), (0012, 209, '2022-5-11', 500, 'credit'), (0013, 210, '2020-5-3', 1100, 'debit'), (0014, 211, '2015-12-12', 10000, 'credit');
Query OK, 14 rows affected (0.03 sec)
```

Records: 14 Duplicates: 0 Warnings: 0

mysql> SELECT \* FROM TRANSACTION;

trans_id	acc_no	trans_date	amount	trans_type
1	201	2019-05-03	4300	credit
2	201	2020-05-03	3000	debit
3	202	2018-05-03	100000	credit
4	203	2022-05-12	5000	debit
5	204	2017-04-03	1000	credit
6	205	2019-05-03	3000	credit
7	205	2022-05-10	10000	debit
8	206	2019-08-14	60000	credit
9	207	2022-05-12	300	debit
10	208	2020-08-18	100000	debit
11	208	2021-04-12	5000	debit
12	209	2022-05-11	500	credit
13	210	2020-05-03	1100	debit
14	211	2015-12-12	10000	credit

14 rows in set (0.00 sec)

mysql> CREATE VIEW Current\_Account AS SELECT acc\_name,acc\_no,pan FROM ACCOUNT WHERE acc\_type='current';

Query OK, 0 rows affected (0.04 sec)

mysql> SELECT \* FROM Current\_Account;

acc_name	acc_no	pan
Ram	201	DKUPGJS201
Shyam	202	DKUPGJS202
Tex	204	DKUPGJS204
Nex	206	DKUPGJS206
John	207	DKUPGJS207
Jin	209	DKUPGJS209
Jim	210	DKUPGJS210

7 rows in set (0.00 sec)

mysql> CREATE VIEW No\_Transaction AS SELECT acc\_name,phone,balance FROM ACCOUNT WHERE balance >100000 AND acc\_no NOT IN(SELECT acc\_no FROM TRANSACTION WHERE YEAR(trans\_date)=YEAR(CURRENT\_DATE()) AND MONTH(trans\_date)=MONTH(CURRENT\_DATE()));

Query OK, 0 rows affected (0.04 sec)

mysql> SELECT \* FROM No\_Transaction;

acc_name	phone	balance
Shyam	3355	200000
Lex	6655	300000
Nex	7755	500000
Jake	8855	5000000

4 rows in set, 4 warnings (0.00 sec)

mysql> UPDATE ACCOUNT SET acc\_type='SB' WHERE balance<5000;

Query OK, 3 rows affected (0.03 sec)

Rows matched: 3 Changed: 3 Warnings: 0

mysql> SELECT \* FROM ACCOUNT;

acc_no	acc_name	address	pan	acc_type	balance	phone
201	Ram	Address 1	DKUPGJS201	SB	4300	2255
202	Shyam	Address 2	DKUPGJS202	current	200000	3355
203	Rex	Address 3	DKUPGJS203	savings	10000	4455
204	Tex	Address 4	DKUPGJS204	SB	1000	5555
205	Lex	Address 5	DKUPGJS205	savings	300000	6655
206	Nex	Address 6	DKUPGJS206	current	500000	7755
207	John	Address 7	DKUPGJS207	current	6000	7755
208	Jake	Address 8	DKUPGJS208	savings	5000000	8855
209	Jin	Address 9	DKUPGJS209	current	7000	9955
210	Jim	Address 10	DKUPGJS210	SB	1500	66

```
| 211 | Sully | Address 11 | DKUPGJS211 | savings | 70000 | 1166 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

```
mysql> INSERT INTO TRANSACTION (trans_id,acc_no,trans_date,amount,trans_type) SELECT (FLOOR(RA
ND()*100)), T.acc_no,CURRENT_DATE(),5000000,'current' FROM TRANSACTION T,ACCOUNT A WHERE (YEAR
(trans_date)=YEAR(CURRENT_DATE()) OR YEAR(trans_date)<>YEAR(CURRENT_DATE())) AND MONTH(trans_d
ate)<>MONTH(CURRENT_DATE()) AND T.acc_no=A.acc_no AND A.balance>200000 GROUP BY T.acc_no,T.trans_date,A.balance;
Query OK, 3 rows affected (0.03 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM TRANSACTION;
```

```
+-----+-----+-----+-----+-----+
| trans_id | acc_no | trans_date | amount | trans_type |
+-----+-----+-----+-----+-----+
| 1 | 201 | 2019-05-03 | 4300 | credit |
| 2 | 201 | 2020-05-03 | 3000 | debit |
| 3 | 202 | 2018-05-03 | 100000 | credit |
| 4 | 203 | 2022-05-12 | 5000 | debit |
| 5 | 204 | 2017-04-03 | 1000 | credit |
| 6 | 205 | 2019-05-03 | 3000 | credit |
| 7 | 205 | 2022-05-10 | 10000 | debit |
| 8 | 206 | 2019-08-14 | 60000 | credit |
| 9 | 207 | 2022-05-12 | 300 | debit |
| 10 | 208 | 2020-08-18 | 100000 | debit |
| 11 | 208 | 2021-04-12 | 5000 | debit |
| 12 | 209 | 2022-05-11 | 500 | credit |
| 13 | 210 | 2020-05-03 | 1100 | debit |
| 14 | 211 | 2015-12-12 | 10000 | credit |
| 23 | 208 | 2022-05-04 | 5000000 | current |
| 26 | 208 | 2022-05-04 | 5000000 | current |
| 36 | 206 | 2022-05-04 | 5000000 | current |
+-----+-----+-----+-----+-----+
17 rows in set (0.00 sec)
```