

```
1  |-- Transfer - Blockchain_registerTransaction
2  desc blockchain_registerTransaction;
3
4  START TRANSACTION;
5  DROP PROCEDURE IF EXISTS sp_transfer;
6
7  DELIMITER $$
8  CREATE PROCEDURE sp_transfer (
9      IN fromClient VARCHAR(50)
10     ,IN fromCPF    VARCHAR(15)
11     ,IN fromAgency VARCHAR(30)
12     ,IN p_value    DECIMAL(8,2)
13     ,IN toClient   VARCHAR(30)
14     ,IN TOcpf      VARCHAR(15)
15 )
16 BEGIN
17 -- verify p_value more than balance fromCPF
18 IF p_value > (select balance from blockchain_user where cpf = fromCPF) THEN
19     SELECT 'OPS! Valor intencionado é maior do que o valor do saldo atual na conta!' as 'STOP!';
20 ELSE
21     -- Do transfer
22     -- subtract from origin
23     UPDATE blockchain_user
24     SET balance = balance - p_value
25     WHERE cpf = fromCPF;
26
27     -- add to destiny
28     UPDATE blockchain_user
29     SET balance = balance + p_value
30     WHERE cpf = TOcpf;
31
32 -- make insert into Blockchain_registerTransaction
33 INSERT INTO blockchain_registerTransaction VALUES
34     (default, fromClient, fromCPF, fromAgency, p_value, toClient, toCPF, now(), now());
```

```

20 ELSE
21     -- Do transfer
22     -- subtract from origin
23     UPDATE blockchain_user
24     SET balance = balance - p_value
25     WHERE cpf = fromCPF;
26
27     -- add to destiny
28     UPDATE blockchain_user
29     SET balance = balance + p_value
30     WHERE cpf = ToCPF;
31     -- make insert into Blockchain_registerTransaction
32     INSERT INTO blockchain_registerTransaction VALUES
33     (default, fromClient, fromCPF, fromAgency, p_value, toClient, toCPF, now(), now());
34     SELECT CONCAT('Transferência entre Sr(a): ', fromClient , ' para CPF: ', toCPF , ' com valor de: R$', p_value , 'realizada co
35 END IF;
36 END $$
37 DELIMITER ;
38 -- TEST
39 SELECT name, cpf, agency, balance from blockchain_user;
40 -- Tavares, CPF: 60876307080, Agency: RICO tem R$ 751, irá transferir R$ 250 para: Sabrina que possui R$ 66
41 -- Tavares ficará com R$ 501 e Sabrina com R$ 316
42 call sp_transfer('Tavares','60876307080','RICO',250,'Sabrina Monteiro','45021705008');
43 SELECT name, cpf, agency, balance from blockchain_user;
44 -- CERTO
45 select * from blockchain_registerTransaction;
46 ROLLBACK;
47 COMMIT;

```

EXPLORER

OPEN EDITORS

blockchain movimentations... U

blockchain insert users.sql n... U

BACKEND_PIM_SQL_...

native MySQL

blockchain insert users.sql U

blockchain movimentatio... U

blockchain put_take_mon... U

blockchain put_take_mon... U

blockchain transfer.sql U

blockchain view vw_users_... U

capmoney cliente_blocke... U

indexes.sql U

node_modules

src

.env

.gitignore

app.js

package-lock.json

package.json

Procfile

readme.md

tests.json

OUTLINE

TIMELINE

master* 0 0 0

blockchain movimentations.sql native MySQL U

blockchain insert users.sql native MySQL U

native MySQL > blockchain movimentations.sql

1 -- movimentations - sp_put_take_money

2 select *

3 from blockchain_user;

4 call sp_put_take_money

5 ('s','45998111060',122); -- Leandro Ferreira CPF: 45998111060

6 call sp_put_take_money

7 ('d','10070094039',22); -- Roberta Schmidt CPF: 10070094039

8 call sp_put_take_money

9 ('s','45021705008',34);

10 -- Sabrina Monteiro CPF: 45021705008

11 select *

12 from vw_users_extract

13 order by Datetime desc;

14

15 -- movimentations - sp_transfer

16 call sp_transfer

17 ('Tavares','60876307080','RICO',177,'Roberta Schmidt','10070094039');

18

19 call sp_transfer

20 ('Yuri França','85822415008','RICO',218,'Moisés Costa','91956772081');

21 call sp_transfer

22 ('Leandro Ferreira','45998111060','EasyInvest',56,'Juliana Paes','76219735013');

23 call sp_transfer

24 ('Sabrina Monteiro','45021705008','Clean',217,'Juliana Paes','76219735013');

25 call sp_transfer

26 ('Moisés Costa','91956772081','Individual',90,'Roberta Schmidt','10070094039');

27 call sp_transfer

28 ('Leandro Ferreira','45998111060','EasyInvest',16,'Yuri França','85822415008');

29 call sp_transfer

30 ('Leandro Ferreira','45998111060','EasyInvest',16,'Sabrina Monteiro','45021705008');

31 call sp_transfer

32 ('Moisés Costa','91956772081','Individual',100,'Leandro Ferreira','45998111060');

33

Ln 1, Col 1

Spaces: 4

UTF-8

LF

SQL

EXPLORER

OPEN EDITORS

blockchain movimentations... U

blockchain insert users.sql n... U

BACKEND_PIM_SQL_...

native MySQL

blockchain insert users.sql U

blockchain movimentatio... U

blockchain put_take_mon... U

blockchain put_take_mon... U

blockchain transfer.sql U

blockchain view vw_users_... U

capmoney cliente_blocke... U

indexes.sql U

node_modules

src

.env

.gitignore

app.js

package-lock.json

package.json

Procfile

readme.md

tests.json

OUTLINE

TIMELINE

blockchain movimentations.sql native MySQL U X

blockchain insert users.sql native MySQL U

native MySQL > blockchain movimentations.sql

30 ('Leandro Ferreira','45998111060','EasyInvest',16,'Sabrina Monteiro','45021705008');

31 call sp_transfer

32 ('Moisés Costa','91956772081','Individual',100,'Leandro Ferreira','45998111060');

33

34

35 -- test

36 select *

37 from blockchain_registerTransaction

38 where cpf_origin = '45998111060' OR cpf_destiny = '45998111060';

39

40 -- 24/11

41 call sp_put_take_money

42 ('d','10070094039',220); -- Roberta Schmidt CPF: 10070094039

43 call sp_put_take_money

44 ('d','45021705008',340); -- Sabrina Monteiro CPF: 45021705008

45 call sp_put_take_money

46 ('d','91956772081',540); -- Moisés da Costa CPF: 91956772081

47 call sp_put_take_money

48 ('s','10070094039',17); -- Roberta Schmidt CPF: 10070094039

49

50 call sp_transfer

51 ('Moisés Costa','91956772081','Individual',140,'Tavares','60876307080');

52

53 -- 25/11

54 call sp_transfer

55 ('Yuri França','85822415008','RICO',18,'Moisés Costa','91956772081');

56 call sp_transfer

57 ('Leandro Ferreira','45998111060','EasyInvest',497,'Juliana Paes','76219735013');

58 call sp_put_take_money

59 ('s','45021705008',143.93); -- Sabrina Monteiro CPF: 45021705008

```

19 BEGIN
20     -- getting primarykey
21     DECLARE v_user int;
22     SELECT id
23     from blockchain_user
24     where cpf = p_toCPF
25     into v_user;
26
27 IF p_action = UPPER('d') THEN
28     -- efetuar depósito (put)
29     UPDATE blockchain_user
30         SET balance = balance + p_value
31         WHERE cpf = p_toCPF;
32     -- creating log
33     INSERT INTO blockchain_extract
34     values
35         (default, 'depósito', p_value, v_user, now(), now() );
36
37     SELECT CONCAT('Depósito para CPF:' , p_toCPF , ' realizado com sucesso' ) as 'Success';
38
39 ELSEIF p_action = UPPER
40     ('s') THEN
41     -- verificando se a quantidade é maior que o valor atual do saldo
42 IF p_value > (select balance
43 from blockchain user

```

```

39 ELSEIF p_action = UPPER
40 ('s') THEN
41 -- verificando se a quantidade é maior que o valor atual do saldo
42 IF p_value > (select balance
43 from blockchain_user
44 WHERE cpf = p_toCPF) THEN
45 SELECT 'O valor solicitado para saque é maior que o valor do saldo atual,
46         entre com um valor menor para efetuar o saque.' as 'WARNING';
47 ELSE
48 -- efetuar saque
49 UPDATE blockchain_user
50         SET balance = balance - p_value
51         WHERE cpf = p_toCPF;
52 -- creating log
53 INSERT INTO blockchain_extract
54 values
55     (default, 'saque', p_value, v_user, now(), now() );
56
57 SELECT CONCAT('Saque realizado com sucesso para o CPF: ', p_toCPF );
58 END
59 IF;
60
61 ELSE
62 IF p_action NOT IN ( UPPER('D'),UPPER('S') ) THEN
63

```

```
14  START TRANSACTION;
15  DELIMITER $
16  CREATE TRIGGER trg_client_blocked
17  AFTER DELETE ON capmoney_client
18  FOR EACH ROW
19  BEGIN
20      INSERT INTO capmoney_clientBlocked
21      (id_client,name, cpf, bornAt, email, phone, password,address,category ,agency, account, openAt,createdAt,updatedAt)
22      VALUES
23      (old.id, old.name,  old.cpf,  old.bornAt,  old.email,  old.phone,  old.password, old.address,  old.category, old.agency,
24  END $
25  select * from capmoney_clientBlocked;
26  select * from capmoney_client;
27  -- i'll gonna delete client id 3, for test and cause he's a test register (delete in API route)
28  -- deleted
29  SELECT * FROM capmoney_clientBlocked;
30  -- DONE
31  -- delete client 17 (test) (in API node.js)
32  ROLLBACK;
33  COMMIT;
```