

## AIM : Implement self join and triggers

1. SELECT sender.name 'Sender', reciever.name 'Reciever', amount, t\_timestamp  
FROM transactions,costumer as sender,costumer as reciever  
WHERE sender.c\_id=from\_c\_id AND reciever.c\_id=to\_c\_id;

#	Sender	Reciever	amount	t_timestamp
1	Chetan Gupta	Anmol Singh	100	2017-01-10
2	Anmol Singh	Chetan Gupta	1000	2017-01-18
3	Anmol Singh	Siddharth Nayyar	50	2017-01-18
4	Neeraj Verma	Deepanshu	120	2017-01-09
5	Siddharth Nayyar	Chetan Gupta	1300	2017-01-11
6	Chetan Gupta	Anmol Singh	15	2017-01-11
7	Deepanshu	Anmol Singh	10	2017-01-11
8	Siddharth Nayyar	Neeraj Verma	100	2017-01-18

2. DELIMITER ;;  
CREATE TRIGGER transaction\_balance\_change  
AFTER INSERT  
ON transactions FOR EACH ROW  
BEGIN  
UPDATE wallet SET balance=balance-NEW.amount WHERE c\_id=NEW.from\_c\_id;  
UPDATE wallet SET balance=balance+NEW.amount WHERE c\_id=NEW.to\_c\_id;  
END;;

#	name	balance
1	Chetan Gupta	50100
2	Anmol Singh	600
3	Deepanshu	1300
4	Siddharth Nayyar	1100
5	Neeraj Verma	3200

3. INSERT INTO transactions(t\_id,from\_c\_id,to\_c\_id,amount,t\_timestamp) VALUES (10, 1, 2, 100, "2017-02-01");
4. INSERT INTO transactions(t\_id,from\_c\_id,to\_c\_id,amount,t\_timestamp) VALUES (11, 5, 3, 1500, "2017-02-01");
5. SELECT name,balance FROM wallet,costumer WHERE wallet.c\_id=costumer.c\_id;

#	name	balance
1	Chetan Gupta	50000
2	Anmol Singh	700
3	Deepanshu	2800
4	Siddharth Nayyar	1100
5	Neeraj Verma	1700