

AIM : To prepare a basic database for an e-wallet company using constraints like Primary key, Foreign key etc.

TABLES CREATED:

1. Costumer

#	Field	Type	Null	Key	Default	Extra
1	c_id	int(11)	NO	PRI	NULL	
2	name	varchar(20)	NO		NULL	
3	phone	bigint(20)	NO		NULL	

2. Transactions

#	Field	Type	Null	Key	Default	Extra
1	t_id	int(11)	NO	PRI	NULL	
2	from_c_id	int(11)	YES	MUL	NULL	
3	to_c_id	int(11)	YES	MUL	NULL	
4	amount	int(11)	NO		NULL	
5	t_timestamp	date	YES		NULL	

3. Wallet

#	Field	Type	Null	Key	Default	Extra
1	w_id	int(11)	NO	PRI	NULL	
2	c_id	int(11)	YES	MUL	NULL	
3	balance	int(11)	NO		NULL	
4	kyc	tinyint(1)	YES		NULL	

QUERIES RUN :

1. SELECT * FROM costumer;

#	c_id	name	phone
1	1	Chetan Gupta	7042869567
2	2	Anmol Singh	9801234523
3	3	Deepanshu	9835253747
4	4	Siddharth Nayyar	9837251537
5	5	Neeraj Verma	8798973546
*	NULL	NULL	NULL

2. SELECT * FROM transactions;

#	t_id	from_c_id	to_c_id	amoun	t_timestamp
1	1	1	2	100	2017-01-10
2	2	2	1	1000	0000-00-00
3	3	2	4	50	2017-01-11
4	4	5	3	120	2017-01-09
5	5	4	1	1300	2017-01-11
6	6	1	2	15	2017-01-11
7	7	3	2	10	2017-01-11
8	8	4	5	100	2017-01-18
*	NULL	NULL	NULL	NULL	NULL

3. SELECT * FROM wallet;

#	w_id	c_id	balance	kyc
1	1	1	10000	0
2	2	2	10000	0
3	3	3	10000	0
4	4	4	10000	0
5	5	5	10000	0
*	NULL	NULL	NULL	NULL

4. INSERT INTO transactions VALUES(9, 12, 13, 100, "2017-01-12");

Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`dbms_lab`.`transactions`, CONSTRAINT `transactions_ibfk_1` FOREIGN KEY (`from_c_id`) REFERENCES `costumer` (`c_id`))