DB_Lab8_ex1.1_Report

DB Lab 8 Report

Before Transactions

	c_id [PK] integer	c_name character varying (50)	c_balance numeric (6,2)
1	1	Johnny Sin	1100.02
2	2	Amanda Amy	2300.56
3	3	Shiva Gautama Christ	4700.16

The Code

```
/*
CREATE TABLE accounts (
C_ID SERIAL PRIMARY KEY,
C_Name VARCHAR(50) UNIQUE NOT NULL,
C_Balance DECIMAL(6,2) NOT NULL,
);
INSERT INTO account (...)
*/


BEGIN;
SAVEPOINT SP0;
-- T1 : Account 1 send 500 RUB to Account 3
UPDATE accounts SET c_balance = c_balance - 500 WHERE c_id = 1;
UPDATE accounts SET c_balance = c_balance + 500 WHERE c_id = 3;
SAVEPOINT SP1;

-- T2: Account  2 send 700 RUB to Account 1
UPDATE accounts SET c_balance = c_balance - 700 WHERE c_id = 2;
UPDATE accounts SET c_balance = c_balance + 700 WHERE c_id = 1;
SAVEPOINT SP1;

-- T3: Account 2 send to 100 RUB to Account 3
UPDATE accounts SET c_balance = c_balance - 100 WHERE c_id = 2;
UPDATE accounts SET c_balance = c_balance + 100 WHERE c_id = 3;
```

```
SAVEPOINT SP1;

SELECT * FROM accounts;
--ROLLBACK TO SP0;
```

After Transaction

Data Output   Explain   Messages   Notifications

c_id [PK] integer	c_name character varying (50)	c_balance numeric (6,2)
1	Johnny Sin	1300.02
2	Amanda Amy	1500.56
3	Shiva Gautama Christ	5300.16

After Rollback

Data Output   Explain   Messages   Notifications

c_id [PK] integer	c_name character varying (50)	c_balance numeric (6,2)
1	Johnny Sin	1100.02
2	Amanda Amy	2300.56
3	Shiva Gautama Christ	4700.16