

Зачетная работа Монастырский_М_О С21-703

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-- Вариант 1
--1

CREATE TABLE operations(
id int PRIMARY KEY,
account_number int,
operation_name text,
operation_sum double precision

);

CREATE TABLE operations_log(
operation_id int,
account_number int,
operation_date timestamp,
operation_type char,
CHECK(operation_type in ('-', '+'))
);

INSERT INTO operations VALUES (1, 100, 'Внесение средств', 100000), (2,
200, 'Снятие средств', -300),
(3, 234, 'Внесение средств', 3400000),
(4, 345, 'Снятие средств', -980), (5, 567, 'Внесение средств', 1000),
(6, 400, 'Снятие средств', -1000);
INSERT INTO operations_log VALUES
(1, 100, '13.06.2003', '+'),
(2, 200, '17.03.2003', '-'),
(3, 234, '15.06.1976', '+'),
(4, 400, '25.06.1976', '-'),
(5, 567, '10.02.2000', '+');

--2

CREATE OR REPLACE PROCEDURE statement_of_account(begin_date timestamp,
end_date timestamp, acc_number int) AS $$
DECLARE
    e_attrs record;
BEGIN
    FOR e_attrs IN (SELECT operation_type, operation_sum, operation_date
from operations_log ol join operations o using(account_number) where
operation_date <= end_date and operation_date >= begin_date and
o.account_number = acc_number and operation_sum > 0 order by
operation_sum desc limit 3)
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    LOOP
        raise info '% %', e_attrs.operation_date, e_attrs.operation_sum;
    END LOOP;
    FOR e_attrs IN (SELECT operation_type, operation_sum, operation_date
from operations_log ol join operations o using(account_number) where
operation_date <= end_date and operation_date >= begin_date and
o.account_number = acc_number and operation_sum < 0 order by
operation_sum desc limit 3)
    LOOP
        raise info '% %', e_attrs.operation_date, e_attrs.operation_sum;
    END LOOP;
    raise info '%', (SELECT count(*) from operations_log where
operation_date <= end_date and operation_date >= begin_date);
    raise info '%', (SELECT
to_char(avg(operation_sum), 'FM999999999999999.99') from operations o join
operation_log ol where (ol.operation_date <= end_date and
ol.operation_date >= begin_date));
END
$$ LANGUAGE plpgsql;

call statement_of_acount('2011-09-01 00:00:0.0', '2013-05-10
00:00:0.0',100);

--3
CREATE OR REPLACE PROCEDURE account_operation(account_number int, id
int, operation_sum double precision) AS $$
BEGIN
IF operation_sum > 0 THEN
INSERT INTO operations VALUES(id, account_number, 'внесение денег на
счет', operation_sum);
END
$$
LANGUAGE plpgsql;

```