

(1) 查询

涉及到的表:

客户信息表、计费设备表、应收费用表

输入:

客户编号

输出:

应缴费金额

```
SET FOREIGN_KEY_CHECKS=0;
```

```
-- -----  
-- Procedure structure for bank1  
-- -----  
DROP PROCEDURE IF EXISTS `bank1`;  
DELIMITER ;;  
CREATE DEFINER=`root`@`localhost` PROCEDURE `bank1`(IN `user_id`  
int,OUT `total_pay` float(7,2))  
BEGIN  
    #Routine body goes here...  
    DECLARE user_info VARCHAR(20);  
    DECLARE done int default -1; -- to control the loop  
    DECLARE tmp0 int;  
    DECLARE tmp1 char(2);  
    DECLARE tmp2 FLOAT(7,2);  
  
    DECLARE user_device CURSOR for SELECT device.deviceid,  
    device.type, receivables.basicfee  
  
    FROM (receivables JOIN device ON  
    device.deviceid=receivables.deviceid)  
  
    WHERE device.clientid=user_id and receivables.flag=1;  
  
    DECLARE continue handler for not found set done=1;  
  
    -- SELECT client.`name` INTO user_info FROM client, device WHERE  
    device.clientid=client.id and client.id = 11;  
    -- SELECT * FROM (receivables LEFT JOIN device ON  
    device.deviceid=receivables.deviceid) WHERE  
    device.clientid=user_id;  
    -- SET total_pay=2;  
    OPEN user_device;  
    set total_pay = 0;  
    myloop:LOOP  
  
        fetch user_device into tmp0,tmp1,tmp2;  
        -- exit
```

```

        if done = 1 then
        leave myLoop;
        end if;

        /* do something */
        set total_pay = total_pay + tmp2*1.08;

        if tmp1 = "01" then
        set total_pay = total_pay + tmp2*0.1;
        end if;
        if tmp1 = "02" then
        set total_pay = total_pay + tmp2*0.15;
        end if;

        -- output
        -- select tmp0,tmp1 ;

END LOOP myloop;

CLOSE user_device;
END
;;
DELIMITER ;

```

时间: 0.047s

Procedure executed successfully  
 受影响的行: 0

Parameters: IN `user\_id` int,OUT `total\_pay` float(7,2)  
 10,@result  
 Return values: 10, 0

## (2) 缴费

涉及到的表:

计费设备表、应收费用表、用户交费表

输入:

客户号, 缴费金额

输出:

成功, 失败

```

-- -----
-- Procedure structure for bank2
-- -----
DROP PROCEDURE IF EXISTS `bank2`;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` PROCEDURE `bank2`(IN `user_id`
int,IN `pay_money` float,OUT `bool_result` int)

```

```

BEGIN
    #Routine body goes here...
    DECLARE money_should_pay int DEFAULT 0;

    CALL bank1(user_id, money_should_pay);

    if pay_money > money_should_pay THEN
    set bool_result = 1;
    else
    set bool_result = 0;
    END IF;
    INSERT INTO user_pay VALUES(user_id, "瀛櫟T", pay_money,
    "random_serial_number");
    SELECT * FROM user_pay;
    END
;;
DELIMITER ;

```

定义	高级	注释	信息	结果1	SQL 预览
clientid	operation	money	serial		
10	存款	300	(Null)		
10	存款	300	(Null)		
10	存款	300	random_serial_number		
10	冲正	-168	ZS201608080010		
10	存款	200	random_serial_number		

时间: 0.060s

Procedure executed successfully  
 受影响的行: 0

受影响的行: 0

Parameters: IN `user\_id` int,IN `pay\_money` float,OUT `bool\_result` int  
 10,200,@result  
 Return values: 10, 200, 1

### (3) 冲正

涉及到的表:

计费设备表、应收费用表、用户交费表

输入:

客户号, 冲正金额, 原流水号

输出:

成功, 失败

-----

```

-- Procedure structure for bank3
-- -----
DROP PROCEDURE IF EXISTS `bank3`;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` PROCEDURE `bank3`(IN `user_id`
int,IN `pay_money` float(7,2),IN `serial` varchar(20),OUT `bool_result` int)
BEGIN
    #Routine body goes here...
    DECLARE serial_number VARCHAR(20);
    DECLARE payfee_paymoney int DEFAULT 0;
    DECLARE device_deviceid int DEFAULT 0;

    SELECT payfee.bankserial, payfee.paymoney, device.deviceid
        FROM (payfee JOIN device ON device.deviceid=payfee.deviceid)
        WHERE payfee.bankserial = serial INTO serial_number, payfee_paymoney,
        device_deviceid;

    set payfee_paymoney = payfee_paymoney*(-1);

    INSERT INTO user_pay VALUES(user_id, "鍢堢崮", payfee_paymoney,
    serial_number);

    UPDATE receivables set receivables.flag=0 WHERE
    receivables.deviceid=device_deviceid;

    SELECT * FROM user_pay;

-- 10,200,'ZS201608080010',@temp
END
;;
DELIMITER ;

```

clientid	operation	money	serial
10	存款	300	(Null)
10	存款	300	(Null)
10	存款	300	random_serial_number
10	冲正	-168	ZS201608080010
10	存款	200	random_serial_number
10	冲正	-168	ZS201608080010

时间: 0.077s

Procedure executed successfully

受影响的行: 0

受影响的行: 0

Parameters: IN `user\_id` int,IN `pay\_money` float(7,2),IN `serial` varchar(20),OUT `bool\_result` int  
10,200,'ZS201608080010',@temp  
Return values: 10, 200, ZS201608080010,  
|

(4) 对总账

涉及到的表:

用户交费表、对总账表

输入:

银行代码, 总笔数, 总金额, 对帐日期

输出:

无

```
-- -----  
-- Procedure structure for bank4  
-- -----  
DROP PROCEDURE IF EXISTS `bank4`;  
DELIMITER ;;  
CREATE DEFINER=`root`@`localhost` PROCEDURE `bank4`(IN `bank_id`  
int,IN `pay_number` int,IN `total_money` float(7,2),IN `pay_date`  
datetime,OUT `bool_result` int)  
BEGIN  
    #Routine body goes here...  
-- DECLARE pay_num int DEFAULT 0;  
DECLARE tmp0 int;  
DECLARE tmp1 FLOAT(7,2);  
  
SELECT COUNT(*), SUM(payfee.paymoney)  
  
FROM payfee  
  
WHERE payfee.bankcode=bank_id and payfee.paydate=pay_date  
INTO tmp0,tmp1;  
  
set bool_result = 0;  
if tmp0=pay_number and tmp1=total_money THEN  
set bool_result = 1;  
end IF;  
  
-- 19, 1200, 204605, str_to_date('20160901000000', '%Y%m%d%H%i%s'),  
@result
```

END

::

DELIMITER ;

时间: 0.004s

Procedure executed successfully

受影响的行: 1

Parameters: IN `bank\_id` int,IN `pay\_number` int,IN `total\_money` float(7,2),IN `pay\_date` datetime,OUT `bool\_result` int  
19, 1200, 204605, str\_to\_date('20160901000000', '%Y%m%d%H%i%s'), @result

Return values: 19, 1200, 204605, 2016-09-01 00:00:00, 1

(5) 对明细账

涉及到的表:

用户缴费表、对账明细、对账异常表

输入:

银行对账明细记录集合

输出:

无

-- -----

-- Procedure structure for bank5

-- -----

DROP PROCEDURE IF EXISTS `bank5`;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `bank5`(OUT  
`bool\_result` int)

BEGIN

    #Routine body goes here...

DECLARE line\_of\_except int default 0;

DECLARE done int default -1;

DECLARE tmp0 datetime;

DECLARE tmp1 char(2);

DECLARE tmp2 VARCHAR(20);

DECLARE tmp3 FLOAT(7,2);

DECLARE tmp4 VARCHAR(20);

DECLARE left\_nul CURSOR for

    SELECT payfee.paydate, payfee.bankcode, payfee.bankserial,  
payfee.paymoney FROM payfee LEFT JOIN bankrecord ON  
payfee.bankserial=bankrecord.bankserial

    WHERE bankrecord.bankserial is NULL or payfee.bankserial is NULL;

DECLARE right\_nul CURSOR for

```

        SELECT payfee.paydate, bankrecord.bankcode,
bankrecord.bankserial, bankrecord.payfee FROM payfee RIGHT JOIN
bankrecord ON payfee.bankserial=bankrecord.bankserial
        WHERE bankrecord.bankserial is NULL or payfee.bankserial is NULL;

```

```

DECLARE inner_nul CURSOR for
        SELECT payfee.paydate, payfee.bankcode, payfee.bankserial,
payfee.paymoney, bankrecord.payfee
        FROM payfee JOIN bankrecord ON
payfee.bankserial=bankrecord.bankserial;
--        WHERE (CAST(payfee.paymoney AS FLOAT))>10;

```

```

DECLARE continue handler for not found set done=1;

```

```

SELECT COUNT(*) FROM check_exception INTO line_of_except;

```

```

OPEN left_nul;
myloop:LOOP

```

```

        fetch left_nul into tmp0,tmp1,tmp2,tmp4;
                                -- exit
        if done = 1 then
        leave myLoop;
        end if;
        set line_of_except = line_of_except + 1;
        INSERT INTO check_exception VALUES(line_of_except, tmp0, tmp1,
tmp2, tmp4, NULL, "bnk");
        -- output
                                -- select tmp0,tmp1 ;

```

```

END LOOP myloop;
CLOSE left_nul;
SET done = -1;
SELECT COUNT(*) FROM check_exception INTO line_of_except;

```

```

OPEN right_nul;
myloop:LOOP

```

```

        fetch right_nul into tmp0,tmp1,tmp2,tmp3;
                                -- exit
        if done = 1 then
        leave myLoop;
        end if;
        set line_of_except = line_of_except + 1;
        INSERT INTO check_exception VALUES(line_of_except, tmp0, tmp1,
tmp2, tmp3, NULL, "pay");
        -- output

```

```

-- select tmp0,tmp1 ;

END LOOP myloop;
CLOSE right_nul;
SET done = -1;
SELECT COUNT(*) FROM check_exception INTO line_of_except;

OPEN inner_nul;
myloop:LOOP

    fetch inner_nul into tmp0,tmp1,tmp2,tmp3,tmp4;
                                -- exit
    if done = 1 then
        leave myLoop;
    end if;

                                if tmp3 <> tmp4 then
        set line_of_except = line_of_except + 1;
        INSERT INTO check_exception VALUES(line_of_except, tmp0, tmp1,
tmp2, tmp3, NULL, "USD");
                                end if;

    -- output
                                -- select tmp0,tmp1 ;

END LOOP myloop;
CLOSE inner_nul;

set bool_result = 0;
IF line_of_except > 0 THEN
set bool_result = 1;
end if;
SELECT * FROM check_exception;

END
;;
DELIMITER ;

```



时间: 4.208s

Procedure executed successfully

受影响的行: 0

受影响的行: 0

Parameters: OUT `bool\_result` int

@result

Return values: 0

id	checkdate	bankcode	bankserial	bankmoney	ourmoney	exceptiontype
▶ (Null)	(Null)	(Null)	(Null)	(Null)	(Null)	(Null)