一、自定义函数

根据经纬度返回距离，单位为千米

CREATE FUNCTION distance\_calc(longitude1 double,latitude1 double,longitude2 double,latitude2 double)

RETURNS DOUBLE

BEGIN

DECLARE PI double;

DECLARE R int;

DECLARE x double;

DECLARE y double;

DECLARE distance double;

set PI=3.14159265358979323;

set R=6371229;

set x = (longitude2 - longitude1) \* PI \* R \* cos(((latitude1 + latitude2) / 2) \* PI / 180) / 180;

set y = (latitude2 - latitude1) \* PI \* R / 180;

set distance = pow(POW(x,2)+POW(y,2),0.5);

return distance/1000;

END

二、存储过程

抽奖回滚

DROP PROCEDURE if EXISTS proc\_luck\_draw\_rollback;

delimiter $$

create PROCEDURE proc\_luck\_draw\_rollback(in p\_user\_id bigint)

block:BEGIN

declare v\_sum\_money int;

declare v\_count\_draw int;

START TRANSACTION;

select sum(a.money) into v\_sum\_money from aug\_activity\_luck\_draw a where a.user\_id=p\_user\_id;

select count(1) into v\_count\_draw from aug\_activity\_luck\_draw a where a.user\_id=p\_user\_id;

if(v\_sum\_money=0 || v\_count\_draw=0) then

leave block;

end if;

delete from aug\_activity\_luck\_draw where user\_id=p\_user\_id;

delete from transaction\_details where description='抽奖获取' and user=p\_user\_id;

update aug\_activity\_all\_prize\_money set all\_money=(all\_money+v\_sum\_money) ,join\_member=(join\_member-10\*v\_count\_draw);

update user set amount=(amount-v\_sum\_money) where id=p\_user\_id;

commit;

end block $$

公众号抽奖

DROP PROCEDURE if EXISTS proc\_weixin\_pub\_prize\_by\_id;

delimiter $$

create PROCEDURE proc\_weixin\_pub\_prize\_by\_id(in p\_user\_id bigint)

block:begin

declare v\_count int;

declare v\_money int;

declare v\_add int;

start transaction;

select count(1) into v\_count from user where id=p\_user\_id;

if (v\_count<>1) then

select 0 as "exists";

leave block;

end if;

set v\_add=2000;

select amount into v\_money from user where id=p\_user\_id;

set v\_money=v\_money+v\_add;

update user set amount=v\_money where id=p\_user\_id;

INSERT INTO transaction\_details(description, money, create\_time, user, is\_calc) VALUES ( '公众号评论区抽奖', v\_add, now(), p\_user\_id, '1');

commit;

select 1 as "exists";

end block $$

2、带游标的存储过程

drop procedure if EXISTS proc\_demo1;

delimiter $$

create procedure proc\_demo1()

BEGIN

declare v\_userId bigint;

declare v\_money bigint;

declare cur\_luck\_draw CURSOR for select a.user\_id,a.money from aug\_activity\_luck\_draw a ;

declare exit HANDLER for not found close cur\_luck\_draw;

START TRANSACTION;

open cur\_luck\_draw;

repeat

fetch cur\_luck\_draw into v\_userId,v\_money;

INSERT INTO aug\_activity\_luck\_draw(user\_id,money,frequency,draw\_time) VALUES (v\_userId, v\_money, 1, now());

until 0 end repeat;

close cur\_luck\_draw;

commit;

END $$

调用存储过程

call proc\_demo1();