# 四川轻化工大学实验报告

院: 计算机科学与工程学院 课程名称: 数据库系统原理 日期: 2022. 5. 25

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实验 名称	<b>实验二、数据库的查询和维护实验</b> 成绩评定								
	计算机,								
所用	Word 2019,								
仪器	Visio 2016,								
<b>十十</b> 本江	MySQL 8.0.28,								
材料	   Navicat for MySQL 15	5							
	项目名称:物业管理系	统							
	一、实验目的								
	1. 熟练掌握使用 SQL	语言	进行简	单表的	数据查询、数据	排序和数据联	结查询的操		
实	作方法。								
验	2. 熟练掌握使用 SQL 语言进行数据库修改数据的操作。								
	3. 掌握数据库中的视图创建语句,掌握视图查询与操作语句,加深对视图作用的								
目	理解。								
的	二、实验内容及要求								
n	1. 简单查询操作:包括持	<b></b>	选择	条件表达	达、数据排序、值	使用临时表等	0		
或	2. 连接查询操作:包括等值连接、自然连接、求笛卡尔积、一般连接、外连接、内								
要	连接、左连接、右连接和自连接等。								
<del>-12</del> -	3. 数据维护操作: 通过 Navicat 实现对数据库库的数据删除和数据修改操作。								
求	4. 创建、查看、修改和删除视图。								
	<b>具体内容及要求</b> :根据需求分析规划的每一个功能,编写该功能所涉及的所有								
	   查询和修改的相应 SQL i	吾句。	选择	1-2 个月	月户端操作表建立	立视图,并进	行编写相应		
	   的操作语句。				. –				
	的 <b>探</b> 作语句。								

## 三、设计过程及结果:

## 1 本实验涉及的功能

本系统由业主模块、管理员模块两部分组成。

业主模块包括由账户登录\注册、查看消息、投诉/建议、服务申请、缴费、查看房屋信息六部分组成。

管理员模块包括由查看账户、发布消息、评价管理、维修管理、服务管理五部分 组成

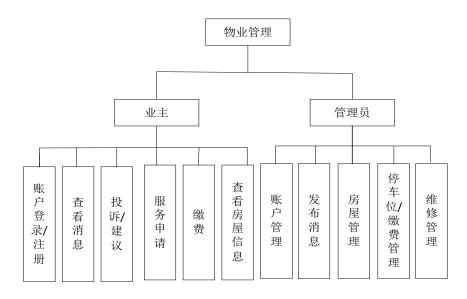


图 1-1 系统功能模块

原

实

验

## 2 每个功能的实现

#### 1. 用户登录/注册

登录账户, 注册账户

理

(1) 登录

(2) 注册

SQL 语句:

(1) 存在查询

CREATE PROCEDURE verify\_account\_up(IN value VARCHAR(50))

BEGIN

SELECT IFNULL((SELECT TRUE FROM userinfo WHERE userphone = value LIMIT 1), FALSE) AS result;

END\$\$

CREATE PROCEDURE verify\_account\_ue(IN value VARCHAR(50))

BEGIN

SELECT IFNULL((SELECT TRUE FROM userinfo WHERE useremail = value LIMIT 1), FALSE) AS result;

#### END\$\$

(2) 密码查询

CREATE PROCEDURE get\_password\_up(IN value VARCHAR(50))
BEGIN

SELECT userpassword FROM userinfo WHERE userphone LIKE value; END\$

CREATE PROCEDURE get\_password\_ue(IN value VARCHAR(50))

BEGINE: \MySql\_Learn\src\SQL\login.sql

SELECT userpassword FROM userinfo WHERE useremail LIKE value;  $\mathtt{END\$\$}$ 

(3) 注册 (用户插入)

INSERT INTO userinfo(username, userpassword, userphone) VALUES
('text', 'test', '000000000000');

INSERT INTO userinfo(username, userpassword, useremail) VALUES
('text', 'test', 'test@test.test');

INSERT INTO userinfo(username, userpassword, userphone, useremail) VALUES ('text', 'test', '00000000001', 'test1@test.test');

UPDATE userinfo set isactive = 1 WHERE userphone = '00000000000';
UPDATE userinfo set isactive = 1 WHERE useremail = 'test@test.test';
执行效果截图:

mysq1>	CALL verify_account_up('18538232830');
resu	
+	
(1) 验证手机号:	1
mysq1> CA	LL verify_account_ue('wwmgbp@qq.com;');
result	†
(2) 验证邮箱:1	+    -
	mysql> CALL get_password_up('18538232830');
	userpassword
(3) 通过手机号获取密码:	sCdv+Btuy1&
	mysq1> CALL get_password_ue('wwmgbp@qq.com;');
	userpassword
	jjfN8m\$J(nJ9rX@auPwe
(4) 涌动机熔块面家印	<del>+</del>
(4)通过邮箱获取密码:	1 row in set (0.00 sec)

#### 2. 用户查看消息

显示所有与该用户有关的消息,点击可查看详细信息:

- (1) 显示所有与该用户有关的消息
- (2) 显示一条消息的详细信息

SQL 语句:

(1) 查询所有与该用户有关的消息

SELECT newsid, newstitle, newstime, newsendtime, adminname FROM newsinfo, admininfo WHERE news\_adminid = adminid and newstype = 0 UNION ALL

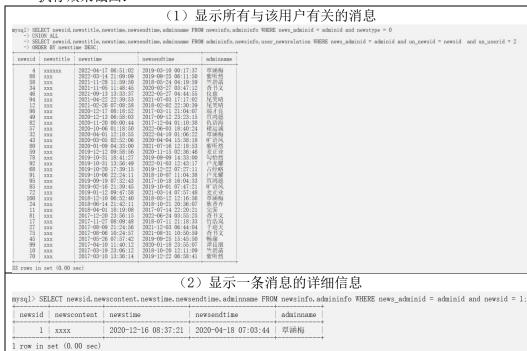
SELECT newsid, newstitle, newstime, newsendtime, adminname FROM admininfo, newsinfo, user\_newsrelation WHERE news\_adminid = adminid and un\_newsid = newsid and un\_userid = 23

ORDER BY newstime DESC;

(2) 查询一条消息的详细信息

SELECT newsid, newscontent, newstime, newsendtime, adminname FROM newsinfo, admininfo WHERE news\_adminid = adminid and newsid = 1

#### 执行效果截图:



#### 3. 用户发表/查看投诉/建议

按发表时间显示该用户的投诉/建议,可发表投诉/建议

(1) 查看投诉/建议

(2) 发表投诉/建议

SQL 语句:

(1) 查询该用户发表的所有投诉/建议

SELECT c\_aid, c\_acontent, c\_atime, c\_aobject, adminname FROM complaint\_and\_acviceinfo LEFT OUTER JOIN admininfo ON c\_a\_adminid = adminid WHERE c\_a\_userid = 1;

(2) 增加一条投诉/建议

INSERT INTO

complaint\_and\_acviceinfo(c\_acontent, c\_atime, c\_aobject, c\_a\_userid)
VALUES('xxxxxxx', '2022-05-26 05:17:28', 'xxx', 1);
执行效果截图:

## 

#### 4. 用户申请服务

停车位查询,购买,维修任务申请,查看详情

(1) 查看拥有车位	(2) 查看未出售车位
(3) 车位购买	(4) 查看维修任务
(5) 查看维修详情	(6) 维修申请

SQL 语句:

#### (1) 查询该用户的停车位

SELECT pcarid, pcarloction, buytime, location FROM pcarinfo, houseinfo, user\_houserelation WHERE pcar\_houseid = houseid and pcar\_houseid = uh\_relation\_houseid and uh\_relation\_userid = 1;

#### (2) 查询空车位

SELECT pcarid, pcarloction FROM pcarinfo WHERE pcarstate = 0;

(3) 修改车位信息

UPDATE pcarinfo SET pcarstate = 1, pcar\_houseid = 33, buytime =
localtime() WHERE pcarid = 99;

## (4) 查询维修任务

SELECT taskcontent, taskstate FROM taskinfo WHERE task\_houseid = 1;

## (5) 查询任务详情

SELECT taskcontent, taskstate, taskstarttime, taskendtime, ataskstate FROM taskinfo LEFT OUTER JOIN admin\_taskrelation

ON admin\_task\_taskid = taskid WHERE taskid = 1;

## (6) 插入维修任务

INSERT INTO taskinfo(taskstate, taskcontent, task\_houseid) VALUES (0,
'test', 1);

#### 执行效果截图:

	查询该用户的停车位							
mysql> SEI = 1;	mysql) SELECT pcarid, pcarloction, buytime, location FROM pcarinfo, houseinfo, user_houserelation WHERE pcar_houseid = houseid and pcar_houseid = uh_relation_houseid and uh_relation_userid = 1:							
pcarid	pcarloction		location					
94 99	94 99	2019-01-31 06:03:31 2022-05-31 19:42:52	清溪小区1 栋1楼11号 清溪小区1 栋1楼11号					
2 rows in	set (0.00 sec)							

mysql> SELECT pcarid, pcarloction FROM pcarinfo WHERE pcarstate = 0; pcarid | pcarloction 查询空车位

## 查询维修任务

mysql> SELECT taskcontent, taskstate FROM taskinfo WHERE task\_houseid = 1;

taskcontent	taskstate
电路缩	1
配玻璃	1
修门	2
逃油	1
涂油	2
test	0
test	0

7 rows in set (0.00 sec)

#### 查询任务详情

mysql> SELECT taskcontent, taskstate, taskstarttime, taskendtime, ataskstate
 -> FROM taskinfo LEFT OUTER JOIN admin\_taskrelation
 -> ON admin\_task\_taskid = taskid WHERE taskid = 1;

, 51, cdiniii		L		
taskcontent	taskstate	taskstarttime	taskendtime	ataskstate
暖气故障	2	2020-09-17 07:55:23	2019-03-06 15:25:34	1
	+			,+

1 row in set (0.00 sec)

## 5. 用户缴费

查看费用详情,可线上缴费

(1) 费用详情

(2) 在线缴费

SQL 语句:

(1) 查询房屋费用

SELECT \* FROM costinfo, costtypeinfo WHERE cost\_costtypeid = costtypeid AND cost\_houseid = 1;

(2) 缴费修改

UPDATE costinfo set paytime = localtime() WHERE costid = 88; 执行效果截图:

mysql> SELECT * FROM costinfo, costtypeinfo WHERE cost_costtypeid = costtypeid AND cost_houseid = 1;   costid   costsarttime		查询房屋费用							
82   2018-03-06 08:56:33   2018-03-11 00:07:43   466.80712319422355   1   53   1   1   水费	mysql> SELECT * FROM costinfo, costtypeinfo WHERE cost_costtypeid = costtypeid AND cost_houseid = 1;								
	costid	costid coststarttime paytime costmoney cost_houseid cost_userid cost_costtypeid costtypeid costtype							

## 6. 用户查看房屋信息

显示房屋详细信息

房屋详情

SQL 语句:

#### (1) 查询该用户的房屋信息

SELECT houseid, location, gethousetime, movetime, adminname FROM houseinfo, user\_houserelation, admininfo WHERE uh\_relation\_houseid = houseid and house\_adminid = adminid and uh\_relation\_userid = 1;

#### 执行效果截图:

* *************************************									
	查询该用户的房屋信息								
	<pre>mysql&gt; SELECT houseid, location, gethousetime, movetime, adminname FROM houseinfo, user_houserelation, admin -&gt; WHERE uh_relation_houseid = houseid and house_adminid = adminid and uh_relation_userid = 1;</pre>								
houseid	houseid location gethousetime movetime adminname								
33	33   清溪小区1 栋1楼11号   2019-09-23 04:47:23   2020-06-07 14:59:05   史凝								
1 row in se	1 row in set (0.00 sec)								

#### 7. 管理员账户管理

登录管理员账户,查看上司的信息,'删除'无用的用户账户

(1) 登录管理员账户	(2) 查看上司
(3) 删除用户账户	(4) 查看下属

SQL 语句:

(1) 存在查询

CREATE PROCEDURE verify\_account\_ap(IN value VARCHAR(50))

BEGIN

SELECT IFNULL((SELECT TRUE FROM admininfo WHERE adminphone = value LIMIT 1), FALSE) AS result;

END\$\$

CREATE PROCEDURE verify\_account\_ae(IN value VARCHAR(50))

**BEGIN** 

SELECT IFNULL((SELECT TRUE FROM admininfo WHERE adminemail = value LIMIT 1), FALSE) AS result;

END\$\$

(2) 密码查询

CREATE PROCEDURE get\_password\_ap(IN value VARCHAR(50))

**BEGIN** 

SELECT adminpassword FROM admininfo WHERE adminphone LIKE value;

END\$\$

CREATE PROCEDURE get\_password\_ae(IN value VARCHAR(50))

**BEGIN** 

SELECT adminpassword FROM admininfo WHERE adminemail LIKE value;

END\$\$

(3) 上司查询

SELECT adminid, adminname, adminphone, adminemail
FROM admininfo WHERE adminid = (

SELECT padminid FROM admininfo WHERE adminid = 1);

(4) 删除用户账户

UPDATE userinfo SET isactive = 0 WHERE userid = 3;

(5) 查询下属

SELECT adminid, adminname, adminphone, adminemail FROM admininfo WHERE padminid = 21;

执行效果截图:

执行效果做图:								
mysql> CALL verify_account_ap('13423874189');								
result								
t+   1								
左左太治, (2.22.)								
存在查询1 row in set (0.00 sec)								
my	mysql> CALL get_password_ap('13423874189');							
ĺ	adminpassword							
+-	<del>+</del>							
	E+#bWPwIcrjRt^RBCET							
密码查询1 row in set (0.00 sec)								
mysql> SELECT adminid, adminname, adminphone, adminemail								
	<pre>-&gt; FROM admininfo WHERE adminid = ( -&gt; SELECT padminid FROM admininfo WHERE adminid = 1);</pre>							
	adminid   adminname   adminphone   adminemail							
上司查询 <sup>1</sup> row in set (0.00 sec)								
mysql> SELECT adminid, adminname, adminphone, adminemail -> FROM admininfo WHERE padminid = 21;								
	adminid adminname adminphone adminemail							
	2 蒙舒方 15734882709 hdala@56.com 7							
	15   曾合美   17377237638   wbu@163. net							
下层本海								
	1 4 rows in set (0.00 sec)							

## 8. 管理员发发布消息

管理员向用户发送消息

(1) 未回复投诉/建议	(2) 已回复投诉/建议		
(3) 发公告	(4) 回复投诉/建议		
(5) 催收费用	(6)维修提醒		

#### SQL 语句:

(1) 查询未回复信息

SELECT c\_aid, c\_a\_userid, c\_acontent, c\_aobject, c\_atime FROM complaint\_and\_acviceinfo WHERE c\_a\_adminid IS NULL;

(2) 查询已回复投诉建议

SELECT c\_aid, c\_a\_userid, c\_acontent, c\_aobject, c\_atime
FROM complaint\_and\_acviceinfo WHERE c\_a\_adminid IS NOT NULL;

(3) 发公告

INSERT INTO newsinfo(news\_adminid, newstitle, newscontent, newstime, newsendtime, newstype)

```
VALUES (12, 'test', 'test', localtime(), localtime(), 0);
## 发单人消息
DELIMITER $$
CREATE PROCEDURE send_news(in inadmin INT, in inuser INT, in innews INT, in intitle TEXT, in incontent TEXT, in inendtime TIMESTAMP)
BEGIN

INSERT INTO newsinfo(news_adminid, newstitle, newscontent, newstime, newsendtime, newstype, newsid)
VALUES (inadmin, intitle, incontent, localtime(), inendtime, 2, innews);
INSERT INTO user_newsrelation(un_newsid, un_userid)
VALUES (innews, inuser);
END$$
```

DELIMITER;

#### 执行效果截图:

## (1) 查询未回复投诉/建议

mysql> SELECT c\_aid, c\_a\_userid, c\_acontent, c\_aobject, c\_atime -> FROM complaint\_and\_acviceinfo WHERE c\_a\_adminid IS NULL;

c_aid	c_a_userid	c_acontent	c_aobject	c_atime
6	4	xxxxxx	xxxxxx	2018-08-18 17:34:55
7	43	XXXXXXX	XXXXXX	2021-05-21 22:25:38
8	62	XXXXXXX	XXXXXX	2021-09-06 02:20:29
9	87	XXXXXXX	XXXXXX	2021-10-03 23:58:34
10	38	XXXXXXX	XXXXXX	2017-07-12 09:47:10
11	3	XXXXXXX	XXXXXX	2019-02-04 10:46:57
12	71	XXXXXXX	XXXXXX	2019-08-24 06:59:31
13	79	XXXXXXX	XXXXXX	2017-04-23 01:38:33
14	18	XXXXXXX	XXXXXX	2020-01-18 04:29:39
22	13	XXXXXXX	XXXXXX	2019-09-27 13:09:53
23	76	XXXXXXX	XXXXXX	2021-01-26 03:32:00
24	62	XXXXXXX	XXXXXX	2018-02-20 12:17:42
25	87	XXXXXXX	XXXXXX	2017-02-17 03:16:00
26	1	XXXXXXX	XXXXXX	2021-05-26 05:17:28
27	72	XXXXXXX	XXXXXX	2022-04-24 10:57:12
28	70	XXXXXXX	XXXXXX	2020-12-30 20:07:04
29	48	XXXXXXX	XXXXXX	2018-03-28 21:10:56
30	9	XXXXXXX	XXXXXX	2019-04-27 10:05:43
31	95	XXXXXXX	XXXXXX	2021-09-12 18:39:32
32	62	YYYYYY	VVVVVV	2017-04-21 08:21:54

mysql> SELECT c\_aid, c\_a\_userid, c\_acontent, c\_aobject, c\_atime
-> FROM complaint\_and\_acviceinfo WHERE c\_a\_adminid IS NOT NULL;

	c_aid	c_a_userid	c_acontent	c_aobject	c_atime
	1 2	9 19	xxxxxxx	xxxxxx	2018-03-21 06:25:59 2017-11-07 09:23:03
	3	55	XXXXXXX	XXXXXX	2019-01-10 16:07:20
	4	80	XXXXXXX	XXXXXX	2018-02-16 13:01:35
	5	67	XXXXXXX	XXXXXX	2020-05-24 16:10:30
	15	20	XXXXXXX	XXXXXX	2018-07-08 06:22:54
	16	80	XXXXXXX	XXXXXX	2017-01-30 14:25:25
	17	83	XXXXXXX	XXXXXX	2021-04-12 04:20:18
	18	75	XXXXXXX	XXXXXX	2021-04-04 20:02:19
	19	17	XXXXXXX	XXXXXX	2022-01-17 09:36:19
	20	8	XXXXXX	XXXXXX	2019-09-07 13:29:48
	21 37	72	XXXXXXX	XXXXXX	2020-06-11 18:03:29 2022-04-10 23:18:01
	38	12 84	XXXXXXX	XXXXXX	2021-04-10 23.18.01 2021-04-24 09:16:32
	39	54	XXXXXXX	XXXXXX	2019-05-14 22:36:09
	40	1	XXXXXXX	XXXXXX	2018-05-27 02:18:47
	41	84	XXXXXXX	XXXXXX	2018-07-30 14:28:58
	42	80	XXXXXXX	XXXXXX	2021-12-31 22:55:40
	43	25	XXXXXXX	XXXXXX	2019-09-05 06:39:23
	44	99	XXXXXXX	XXXXXX	2020-04-23 05:19:37
	56	91	XXXXXXX	XXXXXX	2019-12-15 18:25:13
	57	54	XXXXXXX	XXXXXX	2022-02-06 20:12:49
٠,	58	46	XXXXXXX	XXXXXX	2018-05-17 01:35:20
K.	59	30	YYYYYY	YYYYYY	2018-11-26 06:22:31

(2) 查询已回复投诉/建议

#### 9. 管理员更新房屋信息

管理员修改所有权

(1) 空房查询	(2) 空房出售
(3) 房屋转手	

SQL 语句:

(1) 空房查询

SELECT houseid, location, house adminid FROM houseinfo

WHERE housestate = 0;

(2) 新房出售

DELIMITER \$\$

CREATE PROCEDURE updata\_new(IN inhouse INT, IN inuser INT, IN inadmin INT, in content TEXT)

BEGIN

##修改房屋状态,添加用户

UPDATE houseinfo SET housestate = 1 WHERE houseid = inhouse;

INSERT INTO user\_houserelation(uh\_relation\_userid,

uh\_relation\_houseid, gethousetime)

VALUES(inuser, inhouse, localtime());

##记录修改

INSERT INTO updatarelation(updatacontent, updatatime, updata\_houseid, updata\_adminid)

VALUES (content, localtime(), inhouse, inadmin);

END\$\$

DELIMITER ;

(3) 旧房转卖

DELIMITER \$\$

CREATE PROCEDURE updata\_old(IN inhouse INT, IN inuser INT, IN inadmin INT, in content TEXT)

**BEGIN** 

##清空该房屋的费用,车位

UPDATE costinfo SET paytime = localtime() WHERE paytime IS NULL;

UPDATE costinfo SET istrue = 0 WHERE cost houseid = inhouse;

UPDATE pcarinfo SET pcarstate = 0, buytime = NULL, pcar\_houseid =

NULL WHERE pcar\_houseid = inhouse;

##添加记录

INSERT INTO user\_houserelation(uh\_relation\_userid,
uh\_relation\_houseid, gethousetime)

VALUES(inuser, inhouse, localtime());

##记录修改

INSERT INTO updatarelation(updatacontent, updatatime, updata\_houseid, updata\_adminid)

VALUES (content, localtime(), inhouse, inadmin);

END\$\$

DELIMITER ;

执行效果截图

执行效果截图:				
<pre>mysql&gt; SELECT houseid, location, house_adminid FROM houseinfo     -&gt; WHERE housestate = 0;</pre>				
houseid	location	house_adminid		
16 17 19 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	居	17 14 12 3 13 10 20 17 4 10 9 11 18 30 16 20 30 6 8 28 13 20 4 17		
空房查询 62	清溪小区1 栋10楼19号	J		

#### 10. 管理员其他管理

查看停车位状态, 缴费状态

(1) 己出售停车位	(2) 未出售停车位
(3) 未缴费	(4) 己缴费

SQL 语句:

(1) 查询未购车位

SELECT pcarid, pcarloction FROM pcarinfo WHERE pcarstate<>2;

(2) 查询已购车位

SELECT pcarid, pcar\_houseid, buytime, pcarloction FROM pcarinfo where pcarstate=2;

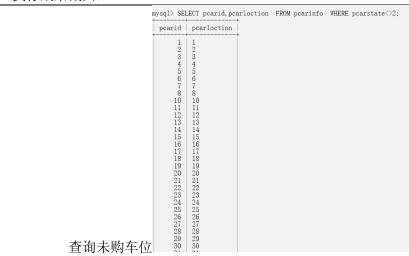
## (3) 查询已缴费

SELECT costid, cost\_houseid, costmoney, coststarttime, paytime, costtype
FROM costinfo, costtypeinfo WHERE cost\_costtypeid = costtypeid and paytime
is NOT NULL;

#### (4) 查询未缴费

SELECT costid, cost\_houseid, costmoney, coststarttime, costtype FROM costinfo, costtypeinfo WHERE cost\_costtypeid = costtypeid and paytime is NULL;

## 执行效果截图:



mysql> SELECT pcarid, pcar\_houseid, buytime, pcarloction FROM pcarinfo
-> WHERE pcarstate=2;

pcarid	pcar_houseid	buytime	pcarloction
9	12	2022-05-31 21:55:55	9

查询已购车位1 row in set (0.00 sec)

## 查询已缴费

costid	cost_houseid	costmoney	coststarttime	paytime	costtype
15	15	614. 9094148357829	2017-04-05 02:03:19	2017-04-06 14:11:59	水费
31	28	201. 37774959341309	2018-05-23 17:53:11	2018-05-25 09:04:54	水费水费
35	26	722. 0372814197307	2021-12-23 23:32:40	2021-12-27 00:38:30	水费
40	26	959. 4884199609421	2018-03-17 17:59:48	2018-03-20 07:08:58	水费
50	30	417. 8054663740341	2021-12-17 01:57:13	2021-12-18 23:24:10	水费水费
69	13	325. 00998247720935	2018-01-10 04:18:15	2022-06-01 00:46:33	水费
82	1	466. 80712319422355	2018-03-06 08:56:33	2018-03-11 00:07:43	水费
101	10	100	2022-05-31 20:35:59	2022-06-01 00:46:33	水费
4	24	932. 2156533715017	2018-01-12 18:46:59	2022-06-01 00:46:33	电费
5	39	563. 5173007753338	2017-05-16 17:22:13	2022-06-01 00:46:33	电费
8	11	140. 75144300916793	2017-01-16 05:45:53	2017-01-21 17:27:24	电费
9	31	67. 16266014073472	2019-03-13 06:39:08	2019-03-13 20:50:08	电费
48	39	821. 2854989942734	2017-01-09 14:39:18	2017-01-11 07:44:17	电费
58	23	640. 1048565403491	2019-04-16 04:29:41	2019-04-16 02:33:00	电费
83	39	504. 0933335759113	2020-12-05 20:14:08	2020-12-07 00:17:33	电费
86	1	897. 6112759665315	2017-01-26 14:47:47	2022-06-01 00:46:33	电费
14	3	689. 2280843847824	2017-07-10 19:08:57	2017-07-11 00:39:13	气费
18	31	683. 4879600654581	2018-10-20 20:04:22	2018-10-24 20:45:18	气费 气费
26	34	982. 3063084614839	2021-08-27 08:39:32	2021-08-31 22:57:32	气费
29	2	649. 2653092680033	2020-06-23 00:41:21	2020-06-25 10:09:01	气费
53	29	617. 3028222212279	2020-11-07 19:59:14	2020-11-07 12:29:18	气费
54	39	413. 8481879143577	2017-05-14 11:15:04	2017-05-18 06:40:51	气费
71	33	695. 5755040742082	2018-05-13 05:41:10	2018-05-18 13:18:41	气费
72	5	67. 4593103187982	2021-02-26 03:18:06	2021-03-01 23:32:42	气费

mysql> SELECT costid, cost\_houseid, costmoney, coststarttime, costtype
 -> FROM costinfo, costtypeinfo WHERE cost\_costtypeid = costtypeid
 -> and navtime; s WILL.

costid	cost_houseid	costmoney	coststarttime	costtype
11	35	474. 0209763188665	2018-10-03 19:03:41	气费
12	25	42. 92830215026217	2017-12-09 15:11:06	清洁费
13	4	572. 8319477305392	2022-03-28 21:48:06	电费
20	12	440. 5860535207093	2019-01-16 22:20:12	清洁费
21	4	298. 33395305470407	2018-11-06 10:51:51	电费 维修费
25	38	632. 9744265115065	2017-12-25 10:15:08	维修费
28	20	547. 902663687483	2020-05-30 04:33:19	清洁费
30	4	260. 537003198367	2019-09-11 22:07:43	气费
32	3	396. 6768477596746	2019-10-27 02:50:37	水费
37	38	646. 4171789956071	2020-03-02 07:20:20	维修费
43	40	190. 2724154359426	2018-01-30 13:53:01	气费
44	10	433. 1952327240465	2021-07-15 00:24:15	维修费
45	32	96. 34578323039699	2017-07-07 03:22:58	水费
52	25	396. 47588747903274	2018-10-19 05:54:51	水费
55	11	395. 30886611109736	2022-04-08 15:42:32	气费
56	11	425. 31703541416465	2018-07-17 11:26:30	清洁费
60	31	345. 7036761398346	2017-08-14 05:20:40	电费
61	29	791. 8842891061352	2018-02-22 11:49:02	气费
65	8	109. 85669550685681	2017-02-28 04:55:38	清洁费
68	3	404. 9153753982554	2021-03-13 16:53:17	水费
73	32	99. 42877596938852	2020-05-18 05:13:19	水费
75	29	705. 8814753640555	2019-08-27 08:06:07	水费 物管费
77	39	560. 7228130003988	2017-12-05 15:55:28	物管费
78	25	53. 239796771716215	2020-02-26 14:18:16	电费
81	5	210. 01914817563892	2022-04-25 23:30:49	气费
87	4	338. 9852896939696	2019-02-10 14:40:25	清洁费
88	1	54. 88872940176486	2018-05-23 00:08:34	气费
89	38	777. 8718875134501	2022-01-28 11:50:38	清洁费
90	30	338. 06986040053664	2017-08-15 07:39:12	清洁费
91 92	20 28	61. 503040730302 596. 0408967486004	2021-05-09 14:44:06 2019-01-19 06:37:35	水费 清洁费

查询未缴费31 rows in set (0.00 sec)

## 11. 管理员管理维修任务

分配维修任务

(1) 未接取任务	(2) 已开始任务
(3) 已完成任务	(4) 修改任务状态

SQL 语句:

#### (1) 未接取任务查询

SELECT task\_houseid, taskcontent FROM taskinfo where taskstate = 0;

#### (2) 已开始任务查询

SELECT task\_houseid, taskstarttime, taskcontent, ataskstate
FROM taskinfo, admin\_taskrelation where taskid=admin\_task\_taskid
AND taskstate = 1;

## (3) 已完成任务查询

SELECT task\_houseid, taskstarttime, taskendtime, taskcontent FROM taskinfo, admin\_taskrelation where taskid=admin\_task\_taskid AND taskstate = 2;

## (4) 接取未开始任务

DELIMITER \$\$

CREATE PROCEDURE receive\_task(IN intask INT, IN inadmin INT)
BEGIN

UPDATE taskinfo SET taskstate = 1 WHERE taskid = intask;
INSERT INTO admin\_taskrelation (ataskstate, taskstarttime,
admin\_task\_taskid, admin\_task\_adminid)
VALUES(0, localtime(), intask, inadmin);

```
END$$
    DELIMITER;
     (5) 维修完成
    DELIMITER $$
    CREATE PROCEDURE successful_task(IN inatr INT)
    BEGIN
         UPDATE taskinfo SET taskstate = 2 WHERE taskid = (
             SELECT admin_task_taskid FROM admin_taskrelation
             WHERE admin_taskid = inatr);
        UPDATE admin_taskrelation SET ataskstate = 1, taskendtime =
localtime()
         WHERE admin_taskid = inatr;
    END$$
    DELIMITER;
     (6) 维修失败
    DELIMITER $$
    DELIMITER $$
    CREATE PROCEDURE fail_task(IN inatr INT)
    BEGIN
        UPDATE taskinfo SET taskstate = 0 WHERE taskid = (
             SELECT admin task taskid FROM admin taskrelation
             WHERE admin_taskid = inatr);
        UPDATE admin_taskrelation SET ataskstate = 2
        WHERE admin_taskid = inatr;
    END$$
    DELIMITER;
    执行效果截图:
                             nysql> SELECT task_houseid, taskcontent FROM taskinfo where taskstate = 0
```

mysql> SELECT task\_houseid, taskstarttime, taskcontent, ataskstate
-> FROM taskinfo, admin\_taskrelation where taskid=admin\_task\_taskid AND taskstate = 1; eid taskstarttime taskconter

1 2018-01-12 04:43:12 电路维修
1 2018-04-26 11:44:30 电路玻璃
1 2019-03-03 12:38:47 通下水道
2 2017-01-12 19:38:44 成下水道
4 2019-03-06 03:13:10 涂油溶涂
4 2019-03-06 03:13:13 维水龙头
5 2019-01-17 16:14:02 程玻璃
5 2019-01-07 00:56:31 更极过境
6 2019-10-20 00:56:31 更极过境
6 2019-10-20 00:56:31 更极过境
6 2020-06-07 01:19:39 修水龙头,
7 2020-11-21 01:44:15 既废墒战人粮粮 2018-07-21 08:57:44 电路玻璃
8 2018-07-21 08:57:44 电路玻璃
8 2018-07-21 08:57:44 电路玻璃
10 2019-08-20 12:09:25 修补层面10 2019-08-28 06:44:55 更换过聚亩
10 2019-08-28 06:44:55 更补层面10 2019-08-24 19:04:37 修补层面10 2019-08-04 18:50:38 修订 2019-01-10 16:37:37 徐时宿约 2019-08-04 18:50:38 修订 2019-01-03 11:57:37 徐时宿约 2019-08-04 18:50:38 修订 2019-01-03 11:57:37 练时宿约 2020-02-23 21:48:25 修补层面11 2020-02-23 20:48:25 修补层面2020-01-03 11:57:37 预计及证券 2020-02-03 03:41 水管破损 2020-07-28 20:51:09 修空喷水水道 32020-02-04 05:31:10 经营业 2020-01-16 14:42:54 修木龙头 13 2022-01-06 03:47:01 城下水道 34:41 水管破损 16 2022-04-17 20:38:41 水管破稅 2050-05:20 04 66 1 2020-01-18 05:32:04 修订 2050-05:00 605:00 已开始任务查询<sup>28</sup> rows in set (0.00 sec) taskstarttime

2020-09-17 07:55:23
2017-10-20 07:20:32
2020-12-29 15:04:01
2022-05-01 11:42:56
2020-02-2 105:32:29
2019-03-00 52:21:54
2018-01-00 8:51:42
2018-05-04 00:18:40
2018-01-01 11:18:45
2021-10-18 17:24:20
2018-01-02 02:31:18
2018-11-00 02:31:18
2018-11-01 11:18:45
2021-10-18 17:00:09
2020-12-17 11:07:05
2020-11-21 11:00:05
2020-01-21 11:43:24
2021-10-99 00:06:30
2017-10-04 17:26:16
2020-08-07 11:54:58
2021-04-19 12:29:23
2020-09-23 21:03:48
2021-04-19 11:43:24
2018-11-20 06:55:44
2021-10-29 11:43:59
2020-08-21 15:31:22
2020-06-21 11:41:29
2021-04-29 04:06:04
2018-12-10 04:06:04
2019-11-29 06:55:44
2021-04-29 14:40:29
2021-04-21 04:33:24
2021-04-21 04:06:04
2019-11-29 06:55:44
2020-06-21 17:20:20
2020-06-21 17:20:20
2022-05-31 21:22:22
2020-06-21 17:39:23
(0.00 sec) taskcontent 2019-03-06 15:25:34
2017-08-01 05:42:02
WILL
2020-01-18 04:36:16
2019-05-25 09:15:55
2020-12-24 10:25:32
2018-08-05 10:55:12
2019-01-27 12:37:58
2019-01-18 05:22:27
2022-01-24 05:11:25
2017-04-30 02:11:25
2017-04-30 02:11:25
2018-06-20 16:31:03
2018-01-20 16:31:03
2018-01-21 13:17:38:27
2019-12-24 15:09:14
2020-08-08 01:38:52
2018-12-13 17:33:27
2019-12-03 17:25:53
2017-08-12 10:27:41
2019-12-19 09:30:28
2022-03-16 01:45:19
2020-10-30 12:44:50
2018-12-17 16:42:18
2017-10-18 05:28:22
2022-04-22 05:04:22
WILL
WILL
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WILL
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2020-10-11 03:14:43
2022-05-06 23:08:59
WILL
WILL 暖修済途匝連木电棒長电修販配更修维修折水餐/5億通通更水流流房通通配 建碳值 要線值 现修头,修面障 梁 然头金髮 林也道道梁要 林也道道梁要 林也道道梁要 林也道道梁要 林也道道梁要 林也道道梁要 林也道道梁要 林也道道梁要 林道道 已完成任务查询<sup>33</sup> rows in set (0.00 sec)

四、	实验总结
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- 1. 在用户查看消息时,不知道什么消息属于该用户,通过添加消息-用户管 理表 (user\_newsrelation) 解决该问题
  - 2. 维修任务与用户无关,应与房屋关联
- 3. 在更新房屋信息时,考虑到新住户不能查看旧住户的缴费信息但缴费信息 又不能删除,通过在缴费信息表(costinfo)中添加费用是否为当前住户(0:否,
- 1:是) (istrue) 字段解决

附 原

- 4. 考虑到实际功能需求,对管理员模块做了大幅度修改
- 5. 有些功能在写程序时还将修改
- 6. 数据存在一些问题

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