数据库 MySQL

注意事项：中文和英文标点符号的区别,空格

所用存储数据库名：studentmessage

用户表t\_user已创建

创建角色表t\_role

create table t\_role(

t\_role\_id int(10) unsigned not null auto\_increment primary key,

role\_name varchar(50) not null

);

创建角色和用户关联表t\_user\_role,并同时添加外键

create table t\_user\_role(

t\_user\_role\_id int(10) unsigned not null auto\_increment primary key,

user\_id int(10) unsigned not null,

role\_id int(10) unsigned not null,

foreign key(user\_id) references t\_user(t\_user\_id),

foreign key( role\_id) references t\_role(t\_role\_id)

);

创建权限表t\_permission

create table t\_permission (

t\_permission\_id int(10) unsigned not null auto\_increment primary key,

permission varchar(50) not null

);

创建角色和权限关联表t\_role\_permission,并同时添加外键

create table t\_role\_permission (

t\_role\_permission\_id int(10) unsigned not null auto\_increment primary key,

permission\_id int(10) unsigned not null,

role\_id int(10) unsigned not null,

foreign key(permission\_id) references t\_permission(t\_permission\_id),

foreign key( role\_id) references t\_role(t\_role\_id)

);

创建操作表t\_operation

create table t\_operation(

t\_operation\_id int(10) unsigned not null auto\_increment primary key,

operation varchar(50) not null,

method varchar(50) not null

);

创建操作和权限关联表t\_permission\_operation,并同时添加外键

create table t\_permission\_operation (

t\_permission\_operation\_id int(10) unsigned not null auto\_increment primary key,

permission\_id int(10) unsigned not null,

operation\_id int(10) unsigned not null,

foreign key(permission\_id) references t\_permission(t\_permission\_id),

foreign key(operation\_id) references t\_operation(t\_operation\_id)

);

插入数据

insert into t\_role values

(1,”manager”),

(2,”student”),

(3,”teacher”);

insert into t\_user\_role values

(1,1,1);

insert into t\_permission values

(1,”密码管理”),

(8,”管理学生”),

(9,”管理教师”),

(10,”管理教师”),

(11,”管理成绩”),

(12,”管理学校”);

insert into t\_role\_permission values

(1,1,1),

(2,8,1),

(3,9,1),

(4,10,1),

(6,11,1),

(5,12,1);

insert into t\_operation values

(1,”修改密码”,” /manager/toUpdatePassword”),

(2,”单个学生资料添加”,”/student/toAddOneStuData”),

(3,”批量学生资料添加”,”/student/toAddBatchStuData”),

(14,”单个学生资料查询（按ID）”,”/student/QueryStuDataByID”),

(15,”单个学生资料查询（按姓名）”,”/student/QueryStuDataByName”),

(21,”单个课程资料查询（按名称）”,”/student/QueryBatchStuByMaj”),

(22,”批量学生资料查询（按课程）”,”/student/QueryBatchStuByCou”),

(24,”批量学生资料查询（按资料）”,”/student/QueryBatchStuByData”),

(6,”单个教师资料添加”,”/teacher/toAddOneTeaData”),

(7,”批量教师资料添加”,”/teacher/toAddBatchTeaData”),

(10,”教师授课添加”,”/course/toAddCouForTea”),

(16,”单个教师资料查询（按ID）”,”/teacher/QueryTeaDataByID”),

(17,”单个教师资料查询（按姓名）”,”/teacher/QueryTeaDataByName”),

(25,”批量教师资料查询（按资料）”,” /teacher/QueryBatchCouByMaj”),

(8,”单个课程添加”,”/course/toAddOneCourse”),

(9,”批量课程添加（按专业）”,”/course/toAddBatchCourse”),

(19,”单个课程资料查询（按ID）”,”/course/QueryCouDataByID”),

(20,”单个课程资料查询（按名称）”,”/course/QueryCouDataByName”),

(26,”批量课程资料查询（按专业）”,”/course/QueryBatchCouByMaj”),

(27,”批量课程资料查询（按教师）”,”/course/QueryBatchCouByTea”),

(31,”批量查询课程平均成绩”,”/score/QueryBatchCouAvlScore”),

(32,”批量查询专业平均成绩”,”/score/QueryBatchMajAvlScore”),

(33,”批量查询学生课程成绩（按课程）”,”/score/QueryBatchStuScore”),

(11,”添加专业”,”/add/toAddMaor”),

(12,”添加学院”,”/add/toAddAcademy”),

insert into t\_permission\_operation values

(1,1,1),

(16,8,2),

(17,8,3),

(18,8,14),

(19,8,15),

(20,8,21),

(21,8,22),

(22,8,24),

(23,9,6),

(24,9,7),

(25,9,10),

(26,9,16),

(27,9,17),

(28,9,25),

(29,10,8),

(30,10,9),

(31,10,19),

(32,10,20),

(33,10,26),

(34,10,27),

(35,11,31),

(36,11,32),

(37,11,33),

(38,12,11),

(39,12,12);

查询角色

select \* from t\_role\_permission rp where rp.role\_id=1;

SELECT  
p.t\_permission\_Id,  
p.permission,  
po.operation\_id,  
po.permission\_id,  
o.t\_operation\_id,  
o.operation,  
o.method  
FROM  
t\_role\_permission rp,  
t\_permission p,  
t\_permission\_operation po,  
t\_operation o  
where rp.role\_Id=1  
and p.t\_permission\_id=rp.permission\_id  
and po.permission\_id=p.t\_permission\_id  
and o.t\_operation\_id=po.operation\_id

查询权限

SELECT  
p.t\_permission\_Id,  
p.permission  
FROM  
t\_role\_permission rp,  
t\_permission p  
where rp.role\_Id=1  
and p.t\_permission\_id=rp.permission\_id

查询操作

select \* from t\_operation;

update t\_operation set method=”/manager/toUpdatePassword” where t\_operation\_id=1;

update t\_operation set method=”/teacher/QueryBatchCouByMaj” where t\_operation\_id=25;

create table t\_professor(

t\_profession\_id int(10) unsigned not null auto\_increment primary key,

professor\_name varchar(10) not null

)

insert into t\_professor values

(1,”教授”),

(2,”副教授”),

(3,”讲师”),

(4,”助教”);

create table t\_worktime(

t\_worktime\_id int(10) unsigned not null auto\_increment primary key,

work\_time int(5) not null

)

insert into t\_worktime values

(1,1),

(2,2),

(3,3),

(4,4),

(5,5),

(6,6),

(7,7),

(8,8),

(9,9),

(10,10),

(11,11),

(12,12),

(13,13),

(14,14),

(15,15),

(16,16),

(17,17),

(18,18),

(19,19),

(20,20)

create table t\_[politicsStatus](http://dict.youdao.com/w/politics%20status/#keyfrom=E2Ctranslation)(

t\_[politicsStatus](http://dict.youdao.com/w/politics%20status/#keyfrom=E2Ctranslation)\_id int(10) unsigned not null auto\_increment primary key,

[politics\_Status](http://dict.youdao.com/w/politics%20status/#keyfrom=E2Ctranslation) varchar(20) not null

);

insert into t\_politicsStatus values

(1,”无党派人士”),

(2,”共青团员”),

(3,”预备党员”),

(4,”共产党员”);

create table t\_[nation](http://dict.youdao.com/w/politics%20status/#keyfrom=E2Ctranslation)(

t\_nation\_id int(10) unsigned not null auto\_increment primary key,

[nation\_name](http://dict.youdao.com/w/politics%20status/#keyfrom=E2Ctranslation) varchar(20) not null

);

insert into t\_nation values

(1,”汉族”),

(2, ”壮族 ”),

(3, ”满族 ”),

(4, ”回族”),

(5,”苗族 ”),

(6, ”维吾尔族”),

(7, ”土家族”),

(8, ”彝族 ”),

(9, ”蒙古族”);

create table t\_nativePlace (

t\_nativeplace\_id int(10) unsigned not null auto\_increment primary key,

[native\_place](http://dict.youdao.com/w/politics%20status/#keyfrom=E2Ctranslation) varchar(20) not null

);

insert into t\_nativeplace values

(1,”北京”),

(2, ”湖南”),

(3, ”湖北”),

(4, ”河南”),

(5, ”河北”),

(6, ”江西”),

(7, ”广东”),

(8, ”广西”),

(9, ”山西”)

create table t\_sex(

t\_sex\_id int(10) unsigned not null auto\_increment primary key,

[sex](http://dict.youdao.com/w/politics%20status/#keyfrom=E2Ctranslation) varchar(10) not null

);

insert into t\_sex values(1,”男”),(2,”女”);

create table t\_academy (

t\_academy\_id int(10) unsigned not null auto\_increment primary key,

academy varchar(50) not null

);

insert into t\_academy values

(1,”外语院”),

(2,”材料院”),

(3,”数学院”);

create table t\_major (

t\_major\_id int(10) unsigned not null auto\_increment primary key,

major varchar(50) not null,

academy\_id int(10) unsigned,

foreign key (academy\_id) references t\_academy(t\_academy\_id)

);

insert into t\_major values

(1,”英语专业”,1),

(2,”日语专业”,1),

(3,”德语专业”,1),

(4,”金属材料工程”,2),

(5,”材料控制工程”,2),

(6,”数学大数据分析”,3);

create table t\_grade (

t\_grade\_id int(10) unsigned not null auto\_increment primary key,

grade int(5) not null

);

insert into t\_grade values

(1,2011),

(2,2012),

(3,2013),

(4,2014),

(5,2015),

(6,2016),

(7,2017),

(8,2018),

(9,2019);

create table t\_grade\_major (

t\_grade\_major\_id int(10) unsigned not null auto\_increment primary key,

grade\_id int(10) unsigned not null,

major\_id int(10) unsigned not null,

foreign key(grade\_id) references t\_grade(t\_grade\_id),

foreign key(major\_id) references t\_major(t\_major\_id)

);

insert into t\_grade\_major values

(1,1,1),

(2,1,2),

(3,1,3),

(4,1,4),

(5,1,5),

(6,1,6),

(7,2,1),

(8,2,2),

(9,2,3),

(10,2,4),

(11,2,5);

create table t\_student(

t\_student\_id int(10) unsigned not null auto\_increment primary key,

student\_name varchar(50) not null,

[identity\_card](http://dict.youdao.com/w/identity%20card/#keyfrom=E2Ctranslation)  varchar(50) not null,

address varchar(50),

birth varchar(50),

sex\_id int(10) unsigned not null,

nativePlace\_id int(10) unsigned not null,

nation\_id int(10) unsigned not null,

user\_id int(10) unsigned not null,

grade\_major\_id int(10) unsigned not null,

[politicsStatus](http://dict.youdao.com/w/politics%20status/#keyfrom=E2Ctranslation)\_id int(10) unsigned not null

)

添加外键

ALTER TABLE t\_student ADD FOREIGN KEY(grade\_major\_id) REFERENCES t\_grade\_major (t\_grade\_major\_id);

insert into t\_student values

(1,"qaqs","123124124121231a","幸福大街2号","1月2号",1,1,1,1,1,1),

(2,"wcvha","12312412412123a","幸福大街3号","1月3号",2,2,2,1,1,2),

(3,"efdxas","12312412412123a","幸福大街4号","1月4号",1,3,3,1,1,3),

(4,"rersd","12312412412123a","幸福大街5号","1月5号",2,4,4,1,1,4),

(5,"tdedfg","12312412412123a","幸福大街6号","1月6号",1,5,5,1,1,1),

(6,"yxcdar","12312412412123a","幸福大街7号","1月7号",2,6,6,1,1,2),

(7,"uerbva","12312412412123a","幸福大街8号","1月8号",1,7,7,1,1,3),

(8,"ihfrv","12312412412123a","幸福大街9号","1月9号",2,8,8,1,1,1),

(9,"ozyd","12312412412123s","幸福大街10号","1月10号",1,9,9,1,1,2),

(10,"pbsut","12312412412123a","幸福大街11号","1月11号",2,1,1,1,1,1),

(11,"aqzf","12312412412123s","幸福大街12号","1月12号",1,2,2,1,1,1),

(12,"styrxjhg","12312412412123s","幸福大街13号","1月13号",2,3,3,1,2,2),

(13,"dqsjhg","12312412412123s","幸福大街14号","2月14号",1,4,4,1,2,3),

(14,"fwerxx","12312412412123s","幸福大街15号","2月15号",2,5,5,1,2,4),

(15,"gaiz","12312412412123s","幸福大街16号","2月16号",1,6,6,1,2,1),

(16,"hrks","12312412412123f","幸福大街17号","2月17号",2,7,7,1,2,2),

(17,"jdgla","12312412412123f","幸福大街18号","2月18号",1,8,8,1,2,3),

(18,"krpas","12312412412123f","幸福大街19号","2月19号",2,9,9,1,2,1),

(19,"qaidd","12312412412123f","幸福大街20号","2月20号",1,1,1,1,2,2),

(20,"wcvqdfg","12312412412123f","幸福大街21号","2月21号",2,2,2,1,3,1),

(21,"efdhar","12312412412123f","幸福大街22号","2月22号",1,3,3,1,3,1),

(22,"rerxa","12312412412123f","幸福大街23号","2月23号",2,4,4,1,3,2),

(23,"tdsv","12312412412123f","幸福大街24号","2月24号",1,5,5,1,3,3),

(24,"yxced","12312412412123f","幸福大街25号","2月1号",2,6,6,1,3,4),

(25,"uerdut","12312412412123a","幸福大街26号","2月2号",1,7,7,1,3,1),

(26,"ihfbvf","12312412412123a","幸福大街27号","2月3号",2,8,8,1,3,2),

(27,"ozrjhg","12312412412123a","幸福大街28号","2月4号",1,9,9,1,3,3),

(28,"pbyjhg","12312412412123a","幸福大街29号","2月5号",2,1,1,1,3,1),

(29,"aqsxx","12312412412123a","幸福大街30号","2月6号",1,2,2,1,3,2),

(30,"styrzz","12312412412123a","幸福大街31号","2月7号",2,3,3,1,3,1),

(31,"dqxs","12312412412123a","幸福大街32号","2月8号",1,4,4,1,3,1),

(32,"fwesa","12312412412123q","幸福大街33号","2月9号",2,5,5,1,4,2),

(33,"garas","12312412412123q","幸福大街34号","2月10号",1,6,6,1,4,3),

(34,"hrid","12312412412123q","幸福大街35号","2月11号",2,7,7,1,4,4),

(35,"jdgkdfg","12312412412123q","幸福大街36号","2月12号",1,8,8,1,4,1),

(36,"krlar","12312412412123q","幸福大街37号","2月13号",2,9,9,1,4,2),

(37,"qapa","12312412412123q","幸福大街38号","2月14号",1,1,1,1,4,3),

(38,"wcvidv","12312412412123q","幸福大街39号","2月15号",2,2,2,1,4,1),

(39,"efdqd","12312412412123q","幸福大街40号","2月16号",1,3,3,1,4,2),

(40,"rerhut","12312412412123q","幸福大街41号","3月17号",2,4,4,1,4,1),

(41,"tdxf","12312412412123q","幸福大街42号","3月18号",1,5,5,1,4,1),

(42,"yxcsjhg","12312412412123q","幸福大街43号","3月19号",2,6,6,1,4,2),

(43,"uerejhg","12312412412123a","幸福大街44号","3月20号",1,7,7,1,5,3),

(44,"ihfdxx","12312412412123a","幸福大街45号","3月21号",2,8,8,1,6,4),

(45,"ozbvz","12312412412123a","幸福大街46号","3月22号",1,9,9,1,7,1),

(46,"pbrs","12312412412123a","幸福大街47号","3月23号",2,1,1,1,8,2),

(47,"aqya","12312412412123a","幸福大街48号","3月24号",1,2,2,1,9,3),

(48,"styrsas","12312412412123a","幸福大街49号","3月25号",2,3,3,1,10,1),

(49,"dqzd","12312412412123a","幸福大街50号","3月26号",1,4,4,1,1,2),

(50,"fwexdfg","12312412412123a","幸福大街51号","3月27号",2,5,5,1,2,1),

1. <insert id="insertAndGetId" useGeneratedKeys="true" keyProperty="userId" parameterType="com.chenzhou.mybatis.User">
2. insert into user(userName,password,comment)
3. values(#{userName},#{password},#{comment})
4. </insert>

alter table t\_student add email varchar(50) not null;

alter table t\_student change email email varchar(50);

insert into t\_user\_role (user\_id,role\_id)  
VALUES (1,(select t.t\_user\_id from t\_role where role\_name=”学生”))

update table t\_student set user\_id=#{userId} where t\_student\_id=#{studentId}

alter table t\_role add role varchar(10)not null;

alter table t\_role change role role varchar(50);

update t\_role r set role=”s” where t\_role\_id=2;

delete from t\_role;

alter table t\_student add grade\_id int(10) unsigned;

alter table t\_student add major\_id int(10) unsigned;

alter table t\_student add foreign key(grade\_id) references t\_grade(t\_grade\_id);

alter table t\_student add foreign key(major\_id) references t\_major(t\_major\_id);

update t\_student set grade\_id=1 where t\_student\_id<160;

update t\_student set major\_id=1 where t\_student\_id<160;

alter table t\_student add current int(2);

alter table t\_student add [**exist**](http://dict.youdao.com/w/exist/#keyfrom=E2Ctranslation)

int(2);

update t\_student set [**exist**](http://dict.youdao.com/w/exist/#keyfrom=E2Ctranslation)=”1” where t\_student\_id>0;

update t\_student set current=”0” where t\_student\_id>0;

SELECT  
s.t\_student\_id,  
s.student\_Name,  
s.address,  
s.birth,  
s.email,  
s.identity\_Card  
FROM t\_student s where s.t\_student\_id >=  
(  
SELECT  
s.t\_student\_id  
from t\_student s  
WHERE  
s.exist=1  
ORDER BY s.t\_student\_id  
LIMIT 0,1  
)  
LIMIT 5

insert into t\_major(t\_major\_id,major) values(1000,“null”);

insert into t\_grade values(1000,0);

insert into t\_nation values(1000, “null”);

insert into t\_sex values(1000, “null”);

insert into t\_nativeplace values(1000, “null”);

insert into t\_politicsstatus values(1000, “null”);

show columns from t\_grade;

show columns from t\_nation;

show columns from t\_politicsstatus;

show columns from t\_sex;

show columns from t\_nativeplace;

delete from t\_major where t\_major\_id=7;

select \* from t\_nation;

delete from t\_nation where t\_nation\_id=10;

select \* from t\_sex ;

delete from t\_sex where t\_sex\_id=3;

select \* from t\_nativeplace;

delete from t\_nativeplace where t\_nativeplace\_id=10;

insert into t\_permission value (2,”权限管理”);

insert into t\_role\_permission value()

insert into t\_operation values

(34,”角色管理”,” /Manager/roleManager”),

(35,”权限管理”,” /Manager/permissionManager”),

(36,”用户管理”,” /Manager/userManager”),

(37,”操作管理”,” /Manager/operationManager”)

insert into t\_permission\_operation values

(40,13,34),

(41,13,35),

(42,13,36),

(43,13,37);

alter table t\_permission add flag int (2);

alter table t\_role add flag int (2);

alter table t\_operation add flag int (2);

update t\_role set flag = 1 where 1=1;

update t\_permission set flag = 1 where 1=1;

update t\_operation set method=”/manager/roleManager” where t\_operation\_id=34;

update t\_operation set method=”/manager/operationManager” where t\_operation\_id=37;

update t\_operation set method=”/manager/permissionManager” where t\_operation\_id=35;

update t\_operation set method=”/manager/userManager” where t\_operation\_id=36;