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习题：

一、创建数据库chujiao

——create database chujiao

二、创建表

1. 创建表User （1）包含字段：ID、昵称、姓名、密码、手机号、身份证号、住址 （2）主键及自增长 （3）引擎类型

CREATE TABLE IF NOT EXISTS user (

    user\_id int NOT NULL AUTO\_INCREMENT,

    nickname char(50) NOT NULL ,

    name char(50) NULL,

    password char(50) NOT NULL,

    phone char(50) NULL,

    idcard  char(18) NULL,

    address char(255) NULL,

    PRIMARY KEY(user\_id)

)ENGINE=InnoDB;

2.创建表Info （1）包含字段：ID，标题，内容，分类ID，图片地址，创建时间，最近一次修改时间

CREATE TABLE info (

    info\_id int NOT NULL AUTO\_INCREMENT,

    title varchar(255) NOT NULL,

    content text NULL,

    catagory int NULL,

    img varchar(255) NULL,

    create\_time datetime NULL,

    mod\_time datetime NULL,

    PRIMARY KEY(info\_id)

)ENGINE=MyISAM;

3.创建表Reply （1）包含字段：ID、发表用户、内容、对应的Info，创建时间、状态：是否被删除

[**CREATE** **TABLE**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcreate-table.html&token=7bbd61da005aadffb1dac683e4c49e32) reply(

reply\_id [INT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fnumeric-types.html&token=7bbd61da005aadffb1dac683e4c49e32) [**NOT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_not&token=7bbd61da005aadffb1dac683e4c49e32) **NULL** **AUTO\_INCREMENT** ,

name [CHAR](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_char&token=7bbd61da005aadffb1dac683e4c49e32)(50) [**NOT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_not&token=7bbd61da005aadffb1dac683e4c49e32) **NULL** ,

content [TEXT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-types.html&token=7bbd61da005aadffb1dac683e4c49e32)(225) [**NOT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html%23operator_not&token=7bbd61da005aadffb1dac683e4c49e32) **NULL** ,

info [INT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fnumeric-types.html&token=7bbd61da005aadffb1dac683e4c49e32) **NULL** ,

create\_time [DATETIME](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fdate-and-time-types.html&token=7bbd61da005aadffb1dac683e4c49e32) **NULL** ,

state [INT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fnumeric-types.html&token=7bbd61da005aadffb1dac683e4c49e32) **NULL** ,

**PRIMARY** **KEY** (reply\_id)

) **ENGINE** [=](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html%23operator_equal&token=7bbd61da005aadffb1dac683e4c49e32) **MYISAM;**

三、在Info表中插入字段“状态”，代表是否删除，默认值为0；位置：“图片地址”后

ALTER TABLE info ADD state int DEFAULT '0' AFTER img ;

附加：在Info表中插入字段“creator“，代表发布人；位置：img后

ALTER TABLE info ADD creator text AFTER img;

多字段插入：在User表中插入字段sex（位置：idcard后）；state（位置：最后）

ALTER TABLE user ADD sex char(5) AFTER idcard,ADD state int;

四、在Info表中删除字段“state”

ALTER TABLE info DROP state;

多字段删除：在user表中删除字段sex、state

ALTER TABLE user DROP sex,DROP state;

五、删除表Reply

[**DROP** **TABLE**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fdrop-table.html&token=7bbd61da005aadffb1dac683e4c49e32) reply

六、在User表中插入一条数据

1. 插入完整的一条数据

[**INSERT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Finsert.html&token=7bbd61da005aadffb1dac683e4c49e32) **INTO** user

**VALUES** (

**NULL** ,

 'shaoniankuang',

**NULL** ,

'123456',

**NULL** ,

**NULL** ,

**NULL** ,

**NULL** ,

**NULL**

);

2. 插入部分数据

INSERT INTO user (nickname,password) VALUES ('jason','123456');

3. 插入多行：union

INSERT INTO user (nickname,password)

SELECT 'changke','123456' UNION

SELECT 'lixupeng','123456' UNION

SELECT 'zhangwei','123456';

七、更新数据

1. 在user表中更新手机和密码

UPDATE user SET password='abcdef',phone='15810511077' WHERE nickname='changke';

八、更改字段属性

1.将info表的creator列置为必填

ALTER TABLE info MODIFY COLUMN creator text NOT NULL;

2.为字段添加注释（可用admin界面添加后，看执行的SQL语句）

[ALTER](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) `info` CHANGE `content` `content` [TEXT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/string-types.html) [CHARACTER](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/charset.html) [SET](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/charset.html) utf8 [COLLATE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/charset-collations.html) utf8\_general\_ci NULL [DEFAULT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL COMMENT '发布的信息的内容';

3.更改字段名：将reply表的info字段更改为info\_id

4.更改字段顺序：将reply表的“content”字段挪到“info\_id”后

九、查询

1. 排重：在info表中查询哪些用户发表过内容（另见3.2）

SELECT DISTINCT user\_id FROM info;

2. 联表查询：在info表中查询哪些用户发表过内容，而且这些用户的用户名是什么

普通方法：SELECT DISTINCT info.user\_id,user.nickname FROM info INNER JOIN user ON info.user\_id=user.user\_id;

使用别名的方法：SELECT DISTINCT a.user\_id,b.nickname FROM info AS a INNER JOIN user AS b ON a.user\_id=b.user\_id

3.SELECT COUNT

3.1 在info表中查询一共有多少条记录

[SELECT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [COUNT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) FROM info

3.2 在info表中查询有多少用户发表过内容

SELECT COUNT(DISTINCT user\_id) AS nums FROM info;

4.GROUP BY

在info表中查询各分类（catagory）的阅读量是多少

附加：info表填入一些数据

INSERT INTO info (title,content,creator)

SELECT '家装信息','沙发家具','jason' UNION

SELECT '家装信息','除甲醛','jason' UNION

SELECT '家装信息','铺地板','jason' UNION

SELECT '房地产','新房两居','changke' UNION

SELECT '房地产','房屋出租','changke' UNION

SELECT '房地产','二手房出售','changke' UNION

SELECT '汽车','汽车装饰品','jason' UNION

SELECT '汽车','优信二手车','jason' UNION

SELECT '汽车','汽车之家','jason' UNION

SELECT '服装','冬装发布','zhangwei' UNION

SELECT '服装','品牌服装圣诞节打折','zhangwei' ;

附加：reply表填入一些数据

INSERT INTO reply (user\_id,info\_id,content)

SELECT '1','14','有什么地板' UNION

SELECT '3','22','是童装还是女装' UNION

SELECT '5','17','多少年的二手房' UNION

SELECT '6','19','4S店在哪里' UNION

SELECT '7','14','地板价钱怎么算' UNION

SELECT '2','14','上门装修么' UNION

SELECT '3','22','品牌服装大概打几折' UNION

SELECT '5','16','是期房还是现房？' UNION

SELECT '3','15','主卧有厕所么？' UNION

SELECT '4','12','沙发是品牌的还是定制的？' UNION

SELECT '3','22','有童装么？' UNION

SELECT '1','15','有厕所' UNION

SELECT '2','15','是期房，交钥匙在8个月后' ;