**用户表**

账号

密码

头像

昵称

个性签名

性别

年龄

生日

家乡

公司

地址

邮箱

注册时间

**群组表**

群id

群名

群主id

群头像

群创建时间

**好友表**

自身id

好友id

**群用户表**

群id

用户id

用户权限(群主/管理员/成员)

use oicq;

create table aida\_user

(

user\_id int(10) auto\_increment not null,

user\_password varchar(32) not null,

user\_avatar varchar(20) not null default “default.jpg”,

user\_nickname varchar(10) not null,

user\_signature varchar(20),

user\_sex char(1) default '男' not null,

user\_birthday varchar(12),

user\_hometown varchar(20),

user\_company varchar(20),

user\_address varchar(20),

user\_email varchar(30),

user\_registertime datetime NOT NULL DEFAULT CURRENT\_TIMESTAMP,

primary key(user\_id)

);

create table aida\_group

(

group\_id int(10) auto\_increment not null,

group\_name varchar(20) not null,

group\_master int(10) not null,

group\_avatar varchar(20) not null default “default.jpg”,

group\_registertime datetime NOT NULL DEFAULT CURRENT\_TIMESTAMP,

foreign key(group\_master) references aida\_user(user\_id) on delete cascade on update cascade,

primary key(group\_id)

);

create table aida\_useruser

(

user\_id int(10),

friend\_id int(10),

index(user\_id),

index(friend\_id),

foreign key(user\_id) references aida\_user(user\_id) on delete cascade on update cascade,

foreign key(friend\_id) references aida\_user(user\_id) on delete cascade on update cascade,

primary key(user\_id,friend\_id)

);

create table aida\_groupuser

(

user\_id int(10),

group\_id int(10),

index(user\_id),

index(group\_id),

foreign key(user\_id) references aida\_user(user\_id) on delete cascade on update cascade,

foreign key(group\_id) references aida\_group(group\_id) on delete cascade on update cascade,

primary key(user\_id,group\_id)

);

use oicq;

create table aida\_chathistory

(

message\_id int(20) primary key auto\_increment not null,

message\_time varchar(30) not null,

message\_content text,

message\_fromid int(10),

message\_toid int(10)

);

create table aida\_groupchathistory

(

message\_id int(20) primary key auto\_increment not null,

message\_time varchar(30) not null,

message\_content text,

message\_fromid int(10),

message\_toid int(10)

);

create view view\_useruser

as

(select

aida\_useruser.user\_id,

friend\_id,

user\_avatar friend\_avatar,

user\_nickname friend\_nickname,

user\_signature friend\_signature,

user\_sex friendr\_sex,

user\_birthday friend\_birthday,

user\_hometown friend\_hometown,

user\_company friend\_company,

user\_address friend\_address,

user\_email friend\_email,

user\_registertime friend\_registertime

from aida\_user, aida\_useruser

where aida\_useruser.friend\_id = aida\_user.user\_id

order by aida\_useruser.user\_id

)

create view view\_groupuser

as

( select

user\_id,

aida\_groupuser.group\_id,

group\_name,

group\_master,

group\_avatar,

group\_registertime

from aida\_group, aida\_groupuser

where aida\_groupuser.group\_id = aida\_group.group\_id

)

（以下mysql自动生成的sql建表语句）

两个视图

（view\_useruser）

CREATE ALGORITHM=UNDEFINED DEFINER=`root`@`localhost` SQL SECURITY DEFINER VIEW `view\_useruser` AS select `aida\_useruser`.`user\_id` AS `user\_id`,`aida\_useruser`.`friend\_id` AS `friend\_id`,`aida\_user`.`user\_avatar` AS `friend\_avatar`,`aida\_user`.`user\_nickname` AS `friend\_nickname`,`aida\_user`.`user\_signature` AS `friend\_signature`,`aida\_user`.`user\_sex` AS `friendr\_sex`,`aida\_user`.`user\_birthday` AS `friend\_birthday`,`aida\_user`.`user\_hometown` AS `friend\_hometown`,`aida\_user`.`user\_company` AS `friend\_company`,`aida\_user`.`user\_address` AS `friend\_address`,`aida\_user`.`user\_email` AS `friend\_email`,`aida\_user`.`user\_registertime` AS `friend\_registertime` from (`aida\_user` join `aida\_useruser`) where (`aida\_useruser`.`friend\_id` = `aida\_user`.`user\_id`) order by `aida\_useruser`.`user\_id`

(view\_groupuser)

CREATE ALGORITHM=UNDEFINED DEFINER=`root`@`localhost` SQL SECURITY DEFINER VIEW `view\_groupuser` AS select `aida\_groupuser`.`user\_id` AS `user\_id`,`aida\_groupuser`.`group\_id` AS `group\_id`,`aida\_group`.`group\_name` AS `group\_name`,`aida\_group`.`group\_master` AS `group\_master`,`aida\_group`.`group\_avatar` AS `group\_avatar`,`aida\_group`.`group\_registertime` AS `group\_registertime` from (`aida\_group` join `aida\_groupuser`) where (`aida\_groupuser`.`group\_id` = `aida\_group`.`group\_id`)

(自动生成的四张建表sql)

CREATE TABLE `aida\_user` (

`user\_id` int(10) NOT NULL AUTO\_INCREMENT,

`user\_password` varchar(32) NOT NULL,

`user\_avatar` varchar(20) NOT NULL DEFAULT 'default.jpg',

`user\_nickname` varchar(10) NOT NULL,

`user\_signature` varchar(20) DEFAULT NULL,

`user\_sex` char(1) NOT NULL DEFAULT '男',

`user\_birthday` varchar(12) DEFAULT NULL,

`user\_hometown` varchar(20) DEFAULT NULL,

`user\_company` varchar(20) DEFAULT NULL,

`user\_address` varchar(20) DEFAULT NULL,

`user\_email` varchar(30) DEFAULT NULL,

`user\_registertime` datetime NOT NULL DEFAULT CURRENT\_TIMESTAMP,

PRIMARY KEY (`user\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=1000094 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci

CREATE TABLE `aida\_group` (

`group\_id` int(10) NOT NULL AUTO\_INCREMENT,

`group\_name` varchar(20) NOT NULL,

`group\_master` int(10) NOT NULL,

`group\_avatar` varchar(20) NOT NULL DEFAULT 'default.jpg',

`group\_registertime` datetime NOT NULL DEFAULT CURRENT\_TIMESTAMP,

PRIMARY KEY (`group\_id`),

KEY `group\_master` (`group\_master`),

CONSTRAINT `aida\_group\_ibfk\_1` FOREIGN KEY (`group\_master`) REFERENCES `aida\_user` (`user\_id`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB AUTO\_INCREMENT=13 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci

CREATE TABLE `aida\_useruser` (

`user\_id` int(10) NOT NULL,

`friend\_id` int(10) NOT NULL,

PRIMARY KEY (`user\_id`,`friend\_id`),

KEY `user\_id` (`user\_id`),

KEY `friend\_id` (`friend\_id`),

CONSTRAINT `aida\_useruser\_ibfk\_1` FOREIGN KEY (`user\_id`) REFERENCES `aida\_user` (`user\_id`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `aida\_useruser\_ibfk\_2` FOREIGN KEY (`friend\_id`) REFERENCES `aida\_user` (`user\_id`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci

CREATE TABLE `aida\_groupuser` (

`user\_id` int(10) NOT NULL,

`group\_id` int(10) NOT NULL,

PRIMARY KEY (`user\_id`,`group\_id`),

KEY `user\_id` (`user\_id`),

KEY `group\_id` (`group\_id`),

CONSTRAINT `aida\_groupuser\_ibfk\_1` FOREIGN KEY (`user\_id`) REFERENCES `aida\_user` (`user\_id`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `aida\_groupuser\_ibfk\_2` FOREIGN KEY (`group\_id`) REFERENCES `aida\_group` (`group\_id`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci