实体：

用户、用户详情、分享、评论、回复、屏蔽关键字、图片

关系：

用户详情-属于-用户

用户-关注-用户

用户-发布-分享

用户-点赞-分享

用户-收藏-分享

用户-发布-评论

评论-属于-分享

回复-属于-评论

用户-发布-回复

回复-回复-用户

图片-属于-分享

表：

实体+关注、点赞、收藏

用户(ID、用户名（唯一）、密码、账号状态、角色)

用户详情(性别、生日、自我介绍、注册时间、头像URL、用户ID)

分享(ID、内容、时间、状态、点赞数、收藏数、评论数、用户ID)

评论(ID、内容、评论时间、用户ID、分享ID)

回复(ID、内容、回复时间、发送用户ID、接收用户ID、所属评论ID)

屏蔽关键字(ID、关键字)

图片(ID、URL、分享ID)

关注(关注用户ID、被关注用户ID、关注时间)

点赞(用户ID、分享ID、点赞时间)

收藏(用户ID、分享ID、收藏时间)

SQL：

CREATE DATABASE IF NOT EXISTS SSP DEFAULT CHARSET utf8 COLLATE utf8\_general\_ci;

USE ssp;

CREATE TABLE IF NOT EXISTS T\_USER(

ID INT UNSIGNED NOT NULL AUTO\_INCREMENT,

`NAME` VARCHAR(20) NOT NULL UNIQUE,

`PASSWORD` VARCHAR(100) NOT NULL,

LOCKED TINYINT DEFAULT 0 NOT NULL,

ROLE VARCHAR(20) NOT NULL DEFAULT 'user',

PRIMARY KEY ( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_USER\_INFO(

GENDER CHAR(1),

BIRTHDAY DATE,

SELF\_INTRODUCTION VARCHAR(50),

REGISTRATION\_TIME DATETIME NOT NULL DEFAULT NOW(),

AVATAR\_URL VARCHAR(500) NOT NULL DEFAULT '/resource/avatar/default.jpg',

USER\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( USER\_ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_SHARE(

ID INT UNSIGNED NOT NULL AUTO\_INCREMENT,

CONTENT VARCHAR(300) NOT NULL,

TIME DATETIME DEFAULT NOW(),

STATE VARCHAR( 30 ) NOT NULL,

LIKENUM INT UNSIGNED DEFAULT 0,

COLLECTNUM INT UNSIGNED DEFAULT 0,

COMMENTNUM INT UNSIGNED DEFAULT 0,

USER\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_COMMENT(

ID INT UNSIGNED NOT NULL AUTO\_INCREMENT,

CONTENT VARCHAR(300) NOT NULL,

TIME DATETIME DEFAULT NOW(),

USER\_ID INT UNSIGNED NOT NULL,

SHARE\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( SHARE\_ID ) REFERENCES T\_SHARE( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_REPLY(

ID INT UNSIGNED NOT NULL AUTO\_INCREMENT,

CONTENT VARCHAR(300) NOT NULL,

TIME DATETIME DEFAULT NOW(),

SEND\_USER\_ID INT UNSIGNED NOT NULL,

ACCEPT\_USER\_ID INT UNSIGNED DEFAULT NULL,

COMMENT\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( ID ),

FOREIGN KEY ( SEND\_USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( ACCEPT\_USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( COMMENT\_ID ) REFERENCES T\_COMMENT( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_SENSITIVE\_KEYWORD(

ID INT UNSIGNED AUTO\_INCREMENT,

KEYWORD VARCHAR(10) NOT NULL UNIQUE,

PRIMARY KEY ( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_PICTURE(

ID INT UNSIGNED NOT NULL AUTO\_INCREMENT,

URL VARCHAR(500) NOT NULL,

SHARE\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( ID ),

FOREIGN KEY ( SHARE\_ID ) REFERENCES T\_SHARE( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_FOLLOW(

FROM\_USER\_ID INT UNSIGNED NOT NULL,

TO\_USER\_ID INT UNSIGNED NOT NULL,

FOLLOW\_TIME DATETIME DEFAULT NOW(),

PRIMARY KEY ( FROM\_USER\_ID,TO\_USER\_ID ),

FOREIGN KEY ( FROM\_USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( TO\_USER\_ID ) REFERENCES T\_USER( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_LIKE(

USER\_ID INT UNSIGNED NOT NULL,

SHARE\_ID INT UNSIGNED NOT NULL,

LIKE\_TIME DATETIME DEFAULT NOW(),

PRIMARY KEY ( USER\_ID,SHARE\_ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( SHARE\_ID ) REFERENCES T\_SHARE( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_COLLECT(

USER\_ID INT UNSIGNED NOT NULL,

SHARE\_ID INT UNSIGNED NOT NULL,

COLLECT\_TIME DATETIME DEFAULT NOW(),

PRIMARY KEY ( USER\_ID,SHARE\_ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( SHARE\_ID ) REFERENCES T\_SHARE( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

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实体：

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用户-发布-评论

评论-属于-分享

回复-属于-评论

用户-发布-回复

回复-回复-用户

图片-属于-分享

表：

实体+用户-角色、关注、点赞、收藏

用户(ID、用户名（唯一）、密码、账号状态)

用户详情(性别、生日、自我介绍、注册时间、头像URL、用户ID)

角色(ID、角色名)

用户-角色(用户ID、角色ID)

分享(ID、内容、时间、状态、点赞数、收藏数、评论数、用户ID)

评论(ID、内容、评论时间、用户ID、分享ID)

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屏蔽关键字(ID、关键字)

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关注(关注用户ID、被关注用户ID、关注时间)

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LOCKED TINYINT DEFAULT 0 NOT NULL,

PRIMARY KEY ( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_USER\_INFO(

GENDER CHAR(1),

BIRTHDAY DATE,

SELF\_INTRODUCTION VARCHAR(50),

REGISTRATION\_TIME DATETIME NOT NULL DEFAULT NOW(),

AVATAR\_URL VARCHAR(50) NOT NULL DEFAULT ‘/avatar/default.jpg’,

USER\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( USER\_ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_ROLE(

ID INT UNSIGNED NOT NULL AUTO\_INCREMENT,

`NAME` VARCHAR(20) NOT NULL UNIQUE,

PRIMARY KEY ( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_USER\_ROLE(

USER\_ID INT UNSIGNED NOT NULL,

ROLE\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( USER\_ID,ROLE\_ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( ROLE\_ID ) REFERENCES T\_ROLE( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_SHARE(

ID INT UNSIGNED NOT NULL AUTO\_INCREMENT,

CONTENT VARCHAR(300) NOT NULL,

TIME DATETIME DEFAULT NOW(),

STATE VARCHAR( 30 ) NOT NULL,

LIKENUM INT UNSIGNED DEFAULT 0,

COLLECTNUM INT UNSIGNED DEFAULT 0,

COMMENTNUM INT UNSIGNED DEFAULT 0,

USER\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_COMMENT(

ID INT UNSIGNED NOT NULL AUTO\_INCREMENT,

CONTENT VARCHAR(300) NOT NULL,

TIME DATETIME DEFAULT NOW(),

USER\_ID INT UNSIGNED NOT NULL,

SHARE\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( SHARE\_ID ) REFERENCES T\_SHARE( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_REPLY(

ID INT UNSIGNED NOT NULL AUTO\_INCREMENT,

CONTENT VARCHAR(300) NOT NULL,

TIME DATETIME DEFAULT NOW(),

SEND\_USER\_ID INT UNSIGNED NOT NULL,

ACCEPT\_USER\_ID INT UNSIGNED NOT NULL,

COMMENT\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( ID ),

FOREIGN KEY ( SEND\_USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( ACCEPT\_USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( COMMENT\_ID ) REFERENCES T\_COMMENT( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_SENSITIVE\_KEYWORD(

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PRIMARY KEY ( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_PICTURE(

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URL VARCHAR(50) NOT NULL,

SHARE\_ID INT UNSIGNED NOT NULL,

PRIMARY KEY ( ID ),

FOREIGN KEY ( SHARE\_ID ) REFERENCES T\_SHARE( ID )

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CREATE TABLE IF NOT EXISTS T\_FOLLOW(

FROM\_USER\_ID INT UNSIGNED NOT NULL,

TO\_USER\_ID INT UNSIGNED NOT NULL,

FOLLOW\_TIME DATETIME DEFAULT NOW(),

PRIMARY KEY ( FROM\_USER\_ID,TO\_USER\_ID ),

FOREIGN KEY ( FROM\_USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( TO\_USER\_ID ) REFERENCES T\_USER( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_LIKE(

USER\_ID INT UNSIGNED NOT NULL,

SHARE\_ID INT UNSIGNED NOT NULL,

LIKE\_TIME DATETIME DEFAULT NOW(),

PRIMARY KEY ( USER\_ID,SHARE\_ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( SHARE\_ID ) REFERENCES T\_SHARE( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE IF NOT EXISTS T\_COLLECT(

USER\_ID INT UNSIGNED NOT NULL,

SHARE\_ID INT UNSIGNED NOT NULL,

COLLECT\_TIME DATETIME DEFAULT NOW(),

PRIMARY KEY ( USER\_ID,SHARE\_ID ),

FOREIGN KEY ( USER\_ID ) REFERENCES T\_USER( ID ),

FOREIGN KEY ( SHARE\_ID ) REFERENCES T\_SHARE( ID )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

INSERT INTO T\_ROLE ( `NAME` )

VALUES

( 'admin' );

INSERT INTO T\_ROLE ( `NAME` )

VALUES

( 'user' );