Python+Flask框架+JWT登录+pymysql+多种图片数据存储方案-不压缩！（云服务、本地文件系统win/linux、mysql的blob等等，至少五种）+中文注释至少每3-5行一条

例如数据库的server、host、user、password、database，前后端的域名/地址（For CORS to use），发邮件的host、port、user、password，还有等等等等能够改的、自定义的都要拉出来放到config单独的文件里面

根据以下内容写一个后端

-- 创建数据库

CREATE DATABASE IF NOT EXISTS FsPicArch

CHARACTER SET utf8mb4 COLLATE utf8mb4\_unicode\_ci;

USE aviation\_railway\_platform;

-- 用户表

CREATE TABLE users (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '用户ID，自增主键',

avatar VARCHAR(255) COMMENT '用户头像URL',

username VARCHAR(50) NOT NULL UNIQUE COMMENT '用户名，唯一',

email VARCHAR(100) NOT NULL UNIQUE COMMENT '邮箱，唯一',

approved\_images\_count INT DEFAULT 0 COMMENT '过图数（审核通过的图片数量）',

likes\_received\_count INT DEFAULT 0 COMMENT '获赞数',

uploads\_count INT DEFAULT 0 COMMENT '上传数（包括未通过的）',

views\_count INT DEFAULT 0 COMMENT '被浏览数',

featured\_count INT DEFAULT 0 COMMENT '被精选数',

analysis\_score DECIMAL(3,2) COMMENT '分析评分（0-5分）',

permission\_group VARCHAR(50) COMMENT '权限组名称',

status TINYINT DEFAULT 1 COMMENT '0-禁用 1-正常 2-审图员 3-管理员',

queue\_limit INT DEFAULT 5 COMMENT '列队限制（同时可上传的最大数量）',

image\_view\_level\_limit JSON COMMENT '图片查看等级限制（包含文件大小、像素等限制）',

bio TEXT COMMENT '个人简介',

personal\_watermark VARCHAR(100) COMMENT '个人水印设置',

inviter\_id INT COMMENT '邀请人ID',

account\_level INT DEFAULT 1 COMMENT '账号等级（1-10级）',

medals\_count INT DEFAULT 0 COMMENT '已获得勋章数量',

notes TEXT COMMENT '管理员备注',

registration\_time DATETIME DEFAULT CURRENT\_TIMESTAMP COMMENT '注册时间',

last\_login DATETIME COMMENT '最后登录时间',

unique\_identifier VARCHAR(100) NOT NULL UNIQUE COMMENT '全局唯一识别符',

FOREIGN KEY (inviter\_id) REFERENCES users(id) ON DELETE SET NULL

) COMMENT '用户信息表';

-- 勋章表

CREATE TABLE medals (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '勋章ID，自增主键',

user\_id INT NOT NULL COMMENT '关联用户ID',

medal\_name VARCHAR(100) NOT NULL COMMENT '勋章名称',

medal\_domain VARCHAR(50) COMMENT '勋章领域（航空/铁路等）',

medal\_type VARCHAR(50) COMMENT '勋章类型',

medal\_unique\_code VARCHAR(100) NOT NULL UNIQUE COMMENT '勋章唯一识别码',

acquisition\_date DATE COMMENT '获得日期',

acquisition\_reason TEXT COMMENT '获得原因',

approver\_id INT COMMENT '审批人ID',

notes TEXT COMMENT '备注信息',

status TINYINT DEFAULT 1 COMMENT '0-已撤销 1-有效 2-待审核',

FOREIGN KEY (user\_id) REFERENCES users(id) ON DELETE CASCADE,

FOREIGN KEY (approver\_id) REFERENCES users(id) ON DELETE SET NULL

) COMMENT '用户勋章表';

-- 许可表

CREATE TABLE licenses (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '许可证ID，自增主键',

user\_id INT NOT NULL COMMENT '关联用户ID',

license\_name VARCHAR(100) NOT NULL COMMENT '许可证名称',

license\_domain VARCHAR(50) COMMENT '许可领域',

license\_type VARCHAR(50) COMMENT '许可类型',

license\_unique\_identifier VARCHAR(100) NOT NULL UNIQUE COMMENT '许可证唯一识别符',

license\_key VARCHAR(100) NOT NULL UNIQUE COMMENT '许可证密钥',

issue\_time DATETIME DEFAULT CURRENT\_TIMESTAMP COMMENT '签发时间',

issuer\_id INT COMMENT '签发人ID',

total\_uses INT DEFAULT 1 COMMENT '总许可次数',

remaining\_uses INT DEFAULT 1 COMMENT '剩余许可次数',

last\_used DATETIME COMMENT '最近一次使用时间',

valid\_until DATETIME COMMENT '有效期至',

status TINYINT DEFAULT 1 COMMENT '0-已失效 1-有效 2-暂停',

notes TEXT COMMENT '备注信息',

license\_content TEXT COMMENT '许可内容详情',

validity\_period VARCHAR(50) COMMENT '有效期描述',

FOREIGN KEY (user\_id) REFERENCES users(id) ON DELETE CASCADE,

FOREIGN KEY (issuer\_id) REFERENCES users(id) ON DELETE SET NULL

) COMMENT '用户许可证表';

-- 机位表

CREATE TABLE spots (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '机位ID，自增主键',

uploader\_id INT NOT NULL COMMENT '上传用户ID',

title VARCHAR(100) NOT NULL COMMENT '机位标题',

description TEXT COMMENT '机位详细介绍',

airport VARCHAR(100) COMMENT '所属机场',

unique\_identifier VARCHAR(100) NOT NULL UNIQUE COMMENT '唯一识别码',

domain VARCHAR(50) COMMENT '领域（航空/铁路等）',

type\_tags JSON COMMENT '类型标签（JSON数组）',

status TINYINT DEFAULT 0 COMMENT '0-待审核 1-公开 2-私有',

view\_permission\_group VARCHAR(50) COMMENT '查看权限组',

allowed\_viewer\_ids JSON COMMENT '被允许查看的用户ID列表（JSON数组）',

upload\_time DATETIME DEFAULT CURRENT\_TIMESTAMP COMMENT '上传时间',

notes TEXT COMMENT '备注信息',

FOREIGN KEY (uploader\_id) REFERENCES users(id) ON DELETE CASCADE

) COMMENT '拍摄机位信息表';

-- 航空图片表

CREATE TABLE aviation\_images (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '图片ID，自增主键',

uploader\_id INT NOT NULL COMMENT '上传用户ID',

reviewer\_id INT COMMENT '审核人ID',

review\_comments TEXT COMMENT '审核评语',

review\_time DATETIME COMMENT '审核时间',

review\_modification\_log TEXT COMMENT '审核修改日志',

shooting\_time DATETIME COMMENT '拍摄时间',

upload\_time DATETIME NOT NULL DEFAULT CURRENT\_TIMESTAMP COMMENT '上传时间',

-- 图片类型

image\_type SET('Airport', 'Cockpit', 'Artistic', 'Ground', 'Cargo', 'Special\_Livery', 'Night', 'Nospecial') NOT NULL DEFAULT 'Nospecial' COMMENT '图片类型',

-- 天气状况

weather SET('Sunny', 'Cloudy', 'Overcast', 'Rain', 'Snow', 'Fog', 'Haze', 'Freezing', 'Hail') NOT NULL COMMENT '天气状况',

tags JSON COMMENT '标签组（JSON数组）',

file\_size BIGINT COMMENT '文件大小（字节）',

resolution VARCHAR(20) COMMENT '分辨率（如1920x1080）',

exposure\_parameters JSON COMMENT '曝光参数（JSON格式）',

copyright\_info TEXT COMMENT '版权信息',

unique\_identifier VARCHAR(100) NOT NULL UNIQUE COMMENT '唯一识别符',

description TEXT COMMENT '图片描述',

location VARCHAR(255) COMMENT '拍摄地点',

notes TEXT COMMENT '备注信息',

last\_update\_time DATETIME DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP COMMENT '最后更新时间',

timezone VARCHAR(50) COMMENT '时区',

review\_status TINYINT DEFAULT 0 COMMENT '0-待审核 1-已通过 2-已拒绝 3-需修改',

is\_featured TINYINT DEFAULT 0 COMMENT '0-普通 1-精选',

image\_quality\_level TINYINT COMMENT '图片质量等级（1-5星）',

rating TINYINT DEFAULT 0 COMMENT '0-未评 1-一星 2-两星 3-三星',

view\_count INT DEFAULT 0 COMMENT '浏览量',

review\_duration INT COMMENT '审核耗时（秒）',

required\_permission VARCHAR(50) COMMENT '查看所需权限',

status TINYINT DEFAULT 1 COMMENT '0-已删除 1-正常 2-隐藏',

airline VARCHAR(100) COMMENT '航空公司',

flight\_number VARCHAR(20) COMMENT '航班号',

aircraft\_type VARCHAR(50) COMMENT '机型',

registration\_number VARCHAR(20) COMMENT '注册号',

file\_type ENUM('jpg', 'jpeg') NOT NULL COMMENT '文件类型',

FOREIGN KEY (uploader\_id) REFERENCES users(id) ON DELETE CASCADE,

FOREIGN KEY (reviewer\_id) REFERENCES users(id) ON DELETE SET NULL

) COMMENT '航空图片表';

-- 铁路图片表

CREATE TABLE railway\_images (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '图片ID，自增主键',

uploader\_id INT NOT NULL COMMENT '上传用户ID',

reviewer\_id INT COMMENT '审核人ID',

review\_comments TEXT COMMENT '审核评语',

review\_time DATETIME COMMENT '审核时间',

review\_modification\_log TEXT COMMENT '审核修改日志',

shooting\_time DATETIME COMMENT '拍摄时间',

upload\_time DATETIME NOT NULL DEFAULT CURRENT\_TIMESTAMP COMMENT '上传时间',

-- 图片类型

image\_type SET('Station', 'Depot', 'Artistic', 'Landscape', 'Freight', 'Special\_Livery', 'Night', 'Nospecial') NOT NULL DEFAULT 'Nospecial' COMMENT '图片类型',

-- 天气状况

weather SET('Sunny', 'Cloudy', 'Overcast', 'Rain', 'Snow', 'Fog', 'Haze', 'Freezing', 'Hail') NOT NULL COMMENT '天气状况',

tags JSON COMMENT '标签组（JSON数组）',

file\_size BIGINT COMMENT '文件大小（字节）',

resolution VARCHAR(20) COMMENT '分辨率（如1920x1080）',

exposure\_parameters JSON COMMENT '曝光参数（JSON格式）',

copyright\_info TEXT COMMENT '版权信息',

unique\_identifier VARCHAR(100) NOT NULL UNIQUE COMMENT '唯一识别符',

description TEXT COMMENT '图片描述',

location VARCHAR(255) COMMENT '拍摄地点',

notes TEXT COMMENT '备注信息',

last\_update\_time DATETIME DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP COMMENT '最后更新时间',

timezone VARCHAR(50) COMMENT '时区',

review\_status TINYINT DEFAULT 0 COMMENT '0-待审核 1-已通过 2-已拒绝 3-需修改',

is\_featured TINYINT DEFAULT 0 COMMENT '0-普通 1-精选',

image\_quality\_level TINYINT COMMENT '图片质量等级（1-5星）',

rating TINYINT DEFAULT 0 COMMENT '0-未评 1-一星 2-两星 3-三星',

view\_count INT DEFAULT 0 COMMENT '浏览量',

review\_duration INT COMMENT '审核耗时（秒）',

required\_permission VARCHAR(50) COMMENT '查看所需权限',

status TINYINT DEFAULT 1 COMMENT '0-已删除 1-正常 2-隐藏',

train\_number VARCHAR(20) COMMENT '车次',

railway\_bureau VARCHAR(50) COMMENT '路局',

train\_type VARCHAR(50) COMMENT '车型',

file\_type ENUM('jpg', 'jpeg') NOT NULL COMMENT '文件类型',

FOREIGN KEY (uploader\_id) REFERENCES users(id) ON DELETE CASCADE,

FOREIGN KEY (reviewer\_id) REFERENCES users(id) ON DELETE SET NULL

) COMMENT '铁路图片表';

-- 系统日志表

CREATE TABLE system\_logs (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '日志ID，自增主键',

operator\_id INT NOT NULL COMMENT '操作人ID',

target\_type ENUM('user','image','medal','license','spot','comment','complaint') NOT NULL COMMENT '操作目标类型',

target\_id INT NOT NULL COMMENT '操作目标ID',

operation VARCHAR(50) NOT NULL COMMENT '操作类型',

operation\_detail JSON COMMENT '操作详情（JSON格式）',

ip\_address VARCHAR(50) NOT NULL COMMENT '操作IP地址',

user\_agent VARCHAR(255) COMMENT '用户浏览器/设备信息',

status ENUM('success','failed','pending') NOT NULL COMMENT '操作状态',

created\_at DATETIME DEFAULT CURRENT\_TIMESTAMP COMMENT '操作时间',

FOREIGN KEY (operator\_id) REFERENCES users(id) ON DELETE CASCADE,

INDEX idx\_operator\_id (operator\_id),

INDEX idx\_target (target\_type, target\_id),

INDEX idx\_created\_at (created\_at)

) COMMENT '系统操作日志表';

-- 点赞表

CREATE TABLE likes (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '点赞ID，自增主键',

user\_id INT NOT NULL COMMENT '点赞用户ID',

target\_type ENUM('image','comment') NOT NULL COMMENT '点赞目标类型',

target\_id INT NOT NULL COMMENT '点赞目标ID',

created\_at DATETIME DEFAULT CURRENT\_TIMESTAMP COMMENT '点赞时间',

FOREIGN KEY (user\_id) REFERENCES users(id) ON DELETE CASCADE,

UNIQUE INDEX idx\_user\_target (user\_id, target\_type, target\_id),

INDEX idx\_target (target\_type, target\_id)

) COMMENT '用户点赞记录表';

-- 评论表

CREATE TABLE comments (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '评论ID，自增主键',

user\_id INT NOT NULL COMMENT '评论用户ID',

target\_type ENUM('image','comment') NOT NULL COMMENT '评论目标类型',

target\_id INT NOT NULL COMMENT '评论目标ID',

content TEXT NOT NULL COMMENT '评论内容',

status ENUM('published','hidden','deleted') DEFAULT 'published' COMMENT '评论状态',

like\_count INT DEFAULT 0 COMMENT '点赞数',

reply\_count INT DEFAULT 0 COMMENT '回复数',

created\_at DATETIME DEFAULT CURRENT\_TIMESTAMP COMMENT '创建时间',

updated\_at DATETIME DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP COMMENT '更新时间',

FOREIGN KEY (user\_id) REFERENCES users(id) ON DELETE CASCADE,

INDEX idx\_user\_id (user\_id),

INDEX idx\_target (target\_type, target\_id),

INDEX idx\_created\_at (created\_at)

) COMMENT '用户评论表';

-- 未通过图片暂存表

CREATE TABLE rejected\_images (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '记录ID，自增主键',

unique\_identifier VARCHAR(100) NOT NULL UNIQUE COMMENT '唯一识别符',

uploader\_id INT NOT NULL COMMENT '上传用户ID',

reviewer\_id INT COMMENT '审核人ID',

original\_image\_id INT COMMENT '原始图片ID',

original\_table ENUM('aviation\_images', 'railway\_images') COMMENT '原始图片所在表',

rejection\_time DATETIME DEFAULT CURRENT\_TIMESTAMP COMMENT '拒绝时间',

reviewer\_modification\_log TEXT COMMENT '审核员修改日志',

shooting\_time DATETIME COMMENT '拍摄时间',

upload\_time DATETIME COMMENT '上传时间',

image\_type VARCHAR(50) COMMENT '图片类型',

tags JSON COMMENT '标签组',

file\_size BIGINT COMMENT '文件大小',

resolution VARCHAR(20) COMMENT '分辨率',

exposure\_parameters JSON COMMENT '曝光参数',

copyright\_info TEXT COMMENT '版权信息',

image\_data LONGBLOB COMMENT '图片二进制数据',

description TEXT COMMENT '描述',

location VARCHAR(255) COMMENT '拍摄地点',

timezone VARCHAR(50) COMMENT '时区',

required\_permission VARCHAR(50) COMMENT '查看所需权限',

status TINYINT DEFAULT 0 COMMENT '0-已拒绝 1-待审核 2-申诉中',

-- 航空特有字段

airline VARCHAR(100) COMMENT '航空公司',

flight\_number VARCHAR(20) COMMENT '航班号',

aircraft\_type VARCHAR(50) COMMENT '机型',

registration\_number VARCHAR(20) COMMENT '注册号',

-- 铁路特有字段

train\_number VARCHAR(20) COMMENT '车次',

railway\_bureau VARCHAR(50) COMMENT '路局',

train\_type VARCHAR(50) COMMENT '车型',

-- 通用字段

domain ENUM('aviation', 'railway') COMMENT '领域',

notes TEXT COMMENT '备注',

file\_type ENUM('jpg', 'jpeg') COMMENT '文件类型',

FOREIGN KEY (uploader\_id) REFERENCES users(id) ON DELETE CASCADE,

FOREIGN KEY (reviewer\_id) REFERENCES users(id) ON DELETE SET NULL

) COMMENT '未通过图片暂存表';

-- 申诉异议表

CREATE TABLE complaints (

id INT AUTO\_INCREMENT PRIMARY KEY COMMENT '申诉ID，自增主键',

complaint\_type ENUM('appeal', 'objection') NOT NULL COMMENT '申诉类型：appeal-对审核结果申诉 objection-对修改内容异议',

target\_type ENUM('aviation\_image', 'railway\_image', 'rejected\_image') NOT NULL COMMENT '目标类型',

target\_id INT NOT NULL COMMENT '目标ID',

target\_unique\_identifier VARCHAR(100) NOT NULL COMMENT '目标唯一标识符',

complainant\_id INT NOT NULL COMMENT '申诉人ID',

complaint\_time DATETIME DEFAULT CURRENT\_TIMESTAMP COMMENT '申诉时间',

-- 申诉特有字段

original\_review\_status TINYINT COMMENT '原始审核状态',

desired\_review\_status TINYINT COMMENT '期望审核状态',

appeal\_reason TEXT COMMENT '申诉理由',

-- 异议特有字段

modified\_fields JSON COMMENT '被修改的字段列表',

original\_content JSON COMMENT '原始内容',

objection\_reason TEXT COMMENT '异议理由',

-- 通用字段

supporting\_evidence JSON COMMENT '支持证据',

status TINYINT DEFAULT 0 COMMENT '0-待处理 1-处理中 2-已解决 3-已驳回',

handler\_id INT COMMENT '处理人ID',

handling\_time DATETIME COMMENT '处理时间',

handling\_result TEXT COMMENT '处理结果',

handling\_notes TEXT COMMENT '处理备注',

FOREIGN KEY (complainant\_id) REFERENCES users(id) ON DELETE CASCADE,

FOREIGN KEY (handler\_id) REFERENCES users(id) ON DELETE SET NULL,

INDEX idx\_target (target\_type, target\_id),

INDEX idx\_complainant (complainant\_id),

INDEX idx\_status (status)

) COMMENT '用户申诉异议表';

-- 创建触发器：更新用户统计数据

DELIMITER //

CREATE TRIGGER after\_aviation\_image\_approval

AFTER UPDATE ON aviation\_images

FOR EACH ROW

BEGIN

IF NEW.review\_status = 1 AND OLD.review\_status != 1 THEN

UPDATE users

SET approved\_images\_count = approved\_images\_count + 1,

uploads\_count = uploads\_count + 1

WHERE id = NEW.uploader\_id;

END IF;

IF NEW.is\_featured = 1 AND OLD.is\_featured = 0 THEN

UPDATE users

SET featured\_count = featured\_count + 1

WHERE id = NEW.uploader\_id;

END IF;

END//

DELIMITER ;

DELIMITER //

CREATE TRIGGER after\_railway\_image\_approval

AFTER UPDATE ON railway\_images

FOR EACH ROW

BEGIN

IF NEW.review\_status = 1 AND OLD.review\_status != 1 THEN

UPDATE users

SET approved\_images\_count = approved\_images\_count + 1,

uploads\_count = uploads\_count + 1

WHERE id = NEW.uploader\_id;

END IF;

IF NEW.is\_featured = 1 AND OLD.is\_featured = 0 THEN

UPDATE users

SET featured\_count = featured\_count + 1

WHERE id = NEW.uploader\_id;

END IF;

END//

DELIMITER ;

-- 创建触发器：更新勋章数量

DELIMITER //

CREATE TRIGGER after\_medal\_insert

AFTER INSERT ON medals

FOR EACH ROW

BEGIN

UPDATE users

SET medals\_count = medals\_count + 1

WHERE id = NEW.user\_id;

END//

DELIMITER ;

DELIMITER //

CREATE TRIGGER after\_medal\_delete

AFTER DELETE ON medals

FOR EACH ROW

BEGIN

UPDATE users

SET medals\_count = medals\_count - 1

WHERE id = OLD.user\_id;

END//

DELIMITER ;

-- 创建触发器：图片被拒绝时自动复制到暂存表

DELIMITER //

CREATE TRIGGER after\_aviation\_image\_rejection

AFTER UPDATE ON aviation\_images

FOR EACH ROW

BEGIN

IF NEW.review\_status = 2 AND OLD.review\_status != 2 THEN

INSERT INTO rejected\_images (

unique\_identifier, uploader\_id, reviewer\_id, original\_image\_id, original\_table,

rejection\_time, reviewer\_modification\_log, shooting\_time, upload\_time,

image\_type, tags, file\_size, resolution, exposure\_parameters, copyright\_info,

description, location, timezone, required\_permission, status,

airline, flight\_number, aircraft\_type, registration\_number, domain, notes, file\_type

)

SELECT

CONCAT('REJ-', NEW.unique\_identifier), NEW.uploader\_id, NEW.reviewer\_id, NEW.id, 'aviation\_images',

NOW(), NEW.review\_modification\_log, NEW.shooting\_time, NEW.upload\_time,

NEW.image\_type, NEW.tags, NEW.file\_size, NEW.resolution, NEW.exposure\_parameters, NEW.copyright\_info,

NEW.description, NEW.location, NEW.timezone, NEW.required\_permission, 0,

NEW.airline, NEW.flight\_number, NEW.aircraft\_type, NEW.registration\_number, 'aviation', NEW.notes, NEW.file\_type

FROM aviation\_images WHERE id = NEW.id;

END IF;

END//

DELIMITER ;

DELIMITER //

CREATE TRIGGER after\_railway\_image\_rejection

AFTER UPDATE ON railway\_images

FOR EACH ROW

BEGIN

IF NEW.review\_status = 2 AND OLD.review\_status != 2 THEN

INSERT INTO rejected\_images (

unique\_identifier, uploader\_id, reviewer\_id, original\_image\_id, original\_table,

rejection\_time, reviewer\_modification\_log, shooting\_time, upload\_time,

image\_type, tags, file\_size, resolution, exposure\_parameters, copyright\_info,

description, location, timezone, required\_permission, status,

train\_number, railway\_bureau, train\_type, domain, notes, file\_type

)

SELECT

CONCAT('REJ-', NEW.unique\_identifier), NEW.uploader\_id, NEW.reviewer\_id, NEW.id, 'railway\_images',

NOW(), NEW.review\_modification\_log, NEW.shooting\_time, NEW.upload\_time,

NEW.image\_type, NEW.tags, NEW.file\_size, NEW.resolution, NEW.exposure\_parameters, NEW.copyright\_info,

NEW.description, NEW.location, NEW.timezone, NEW.required\_permission, 0,

NEW.train\_number, NEW.railway\_bureau, NEW.train\_type, 'railway', NEW.notes, NEW.file\_type

FROM railway\_images WHERE id = NEW.id;

END IF;

END//

DELIMITER ;

-- 创建视图：用户活动摘要

CREATE VIEW user\_activity\_summary AS

SELECT

u.id,

u.username,

u.approved\_images\_count,

u.likes\_received\_count,

u.uploads\_count,

u.views\_count,

u.featured\_count,

COUNT(DISTINCT m.id) AS medals\_count,

COUNT(DISTINCT l.id) AS licenses\_count,

COUNT(DISTINCT s.id) AS spots\_count,

u.registration\_time,

u.last\_login

FROM

users u

LEFT JOIN

medals m ON u.id = m.user\_id AND m.status = 1

LEFT JOIN

licenses l ON u.id = l.user\_id AND l.status = 1

LEFT JOIN

spots s ON u.id = s.uploader\_id AND s.status = 1

GROUP BY

u.id;

-- 创建视图：待处理的申诉异议

CREATE VIEW pending\_complaints AS

SELECT

c.id,

c.complaint\_type,

c.target\_type,

c.target\_id,

c.target\_unique\_identifier,

c.complaint\_time,

u.username AS complainant,

CASE

WHEN c.complaint\_type = 'appeal' THEN CONCAT('申诉: 从状态', c.original\_review\_status, '改为', c.desired\_review\_status)

WHEN c.complaint\_type = 'objection' THEN '异议: 对审核修改内容不满'

END AS complaint\_summary,

c.status,

h.username AS handler

FROM

complaints c

JOIN

users u ON c.complainant\_id = u.id

LEFT JOIN

users h ON c.handler\_id = h.id

WHERE

c.status IN (0, 1);