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USE dailycheck;

CREATE TABLE `users` (
  `id` bigint unsigned NOT NULL AUTO_INCREMENT COMMENT '主键 ID',
  `email` varchar(255) COLLATE utf8mb4_unicode_ci NOT NULL COMMENT '用户邮箱 (唯一)',
  `password_hash` varchar(255) COLLATE utf8mb4_unicode_ci NOT NULL COMMENT '密码哈希 (如 bcrypt)',
  `nick_name` varchar(64) COLLATE utf8mb4_unicode_ci DEFAULT NULL COMMENT '用户昵称',
  `avatar_key` varchar(512) COLLATE utf8mb4_unicode_ci DEFAULT NULL COMMENT '头像图片 URL',
  `is_deleted` tinyint(1) NOT NULL DEFAULT '0' COMMENT '是否伪删除: 0 正常, 1 已删除',
  `deleted_at` datetime DEFAULT NULL COMMENT '伪删除时间',
  `status` tinyint(1) NOT NULL DEFAULT '1' COMMENT '账户状态: 1 正常, 0 冻结',
  `role` enum('user', 'admin') COLLATE utf8mb4_unicode_ci NOT NULL DEFAULT 'user' COMMENT '用户角色: user 普通用户, admin 管理员',
  `frozen_at` datetime DEFAULT NULL COMMENT '账户冻结时间',
  `frozen_reason` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT NULL COMMENT '账户冻结原因',
  `freeze_operator_id` bigint unsigned DEFAULT NULL COMMENT '执行冻结操作的管理员用户 ID',
  `created_at` datetime NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT '创建时间',
  `updated_at` datetime NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP COMMENT '更新时间',
  `user_account` varchar(64) COLLATE utf8mb4_unicode_ci NOT NULL COMMENT '用户账号 (唯一)',
  `account_updated_at` datetime DEFAULT NULL COMMENT 'username 更新时间',
  PRIMARY KEY (`id`),
  UNIQUE KEY `ux_users_email` (`email`),
  UNIQUE KEY `ux_users_user_account` (`user_account`),
  KEY `idx_users_status` (`status`),
  KEY `idx_users_is_deleted` (`is_deleted`),
  KEY `idx_users_frozen_at` (`frozen_at`),
  KEY `fk_users_freeze_operator` (`freeze_operator_id`),
  CONSTRAINT `fk_users_freeze_operator` FOREIGN KEY (`freeze_operator_id`) REFERENCES `users` (`id`)
) ENGINE = InnoDB AUTO_INCREMENT = 13 DEFAULT CHARSET = utf8mb4 COLLATE = utf8mb4_unicode_ci COMMENT = '用户表 (支持伪删除与黑名单冻结) '

CREATE TABLE user_oauth_accounts (
  id BIGINT UNSIGNED NOT NULL AUTO_INCREMENT COMMENT '主键 ID',
  user_id BIGINT UNSIGNED NOT NULL COMMENT '关联用户 ID',
  provider ENUM('wechat', 'google', 'apple') NOT NULL COMMENT '第三方登录平台类型',
  open_id VARCHAR(255) NOT NULL COMMENT '第三方平台 open_id',
  union_id VARCHAR(255) NULL COMMENT '第三方平台 union_id (可选)',
  created_at DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT '绑定时间',
  updated_at DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP COMMENT '更新时间',
  PRIMARY KEY (id),
  UNIQUE KEY ux_oauth_provider_open (provider, open_id),
  KEY idx_oauth_user (user_id),
  CONSTRAINT fk_oauth_user FOREIGN KEY (user_id) REFERENCES users (id)

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) ENGINE = InnoDB DEFAULT CHARSET = utf8mb4 COLLATE = utf8mb4_unicode_ci COMMENT
= '用户第三方登录账号绑定表';
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CREATE TABLE checkin_plans (
    id BIGINT UNSIGNED NOT NULL AUTO_INCREMENT COMMENT '主键 ID',
    user_id BIGINT UNSIGNED NOT NULL COMMENT '计划所属用户 ID',
    title VARCHAR(255) NOT NULL COMMENT '打卡计划标题',
    description TEXT NULL COMMENT '打卡计划描述',
    start_date DATE NOT NULL COMMENT '计划开始日期',
    end_date DATE NULL COMMENT '计划结束日期 (可选)',
    is_active TINYINT(1) NOT NULL DEFAULT 1 COMMENT '是否启用: 1 启用, 0 停用',
    is_deleted TINYINT(1) NOT NULL DEFAULT 0 COMMENT '是否伪删除: 0 正常, 1 已删除',
    deleted_at DATETIME NULL COMMENT '伪删除时间',
    created_at DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT '创建时间',
    updated_at DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP COMMENT '更新时间',
    PRIMARY KEY (id),
    KEY idx_plans_user (user_id),
    KEY idx_plans_start_date (start_date),
    KEY idx_plans_is_active (is_active),
    KEY idx_plans_is_deleted (is_deleted),
    CONSTRAINT fk_plans_user FOREIGN KEY (user_id) REFERENCES users (id)
) ENGINE = InnoDB DEFAULT CHARSET = utf8mb4 COLLATE = utf8mb4_unicode_ci COMMENT
= '打卡计划表';
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CREATE TABLE checkins (
    id BIGINT UNSIGNED NOT NULL AUTO_INCREMENT COMMENT '主键 ID',
    plan_id BIGINT UNSIGNED NOT NULL COMMENT '所属打卡计划 ID',
    user_id BIGINT UNSIGNED NOT NULL COMMENT '打卡用户 ID',
    check_date DATE NOT NULL COMMENT '打卡日期 (仅日期)',
    images JSON NULL COMMENT '打卡图片 URL 数组(JSON)',
    note TEXT NULL COMMENT '打卡备注',
    status TINYINT NOT NULL COMMENT '打卡状态: 0 错过(红)、1 成功(绿)、2 补签(黄)',
    is_deleted TINYINT(1) NOT NULL DEFAULT 0 COMMENT '是否伪删除: 0 正常, 1 已删除',
    deleted_at DATETIME NULL COMMENT '伪删除时间',
    created_at DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT '创建时间',
    updated_at DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP COMMENT '更新时间',
    PRIMARY KEY (id),
    UNIQUE KEY ux_checkins_plan_date (plan_id, check_date),
    KEY idx_checkins_user_date (user_id, check_date),
    KEY idx_checkins_status (status),
    KEY idx_checkins_is_deleted (is_deleted),
    CONSTRAINT fk_checkins_plan FOREIGN KEY (plan_id) REFERENCES checkin_plans
(id),
    CONSTRAINT fk_checkins_user FOREIGN KEY (user_id) REFERENCES users (id)
) ENGINE = InnoDB DEFAULT CHARSET = utf8mb4 COLLATE = utf8mb4_unicode_ci COMMENT
= '打卡记录表';
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CREATE TABLE user_activity (
    id BIGINT UNSIGNED NOT NULL AUTO_INCREMENT COMMENT '主键 ID',
    user_id BIGINT UNSIGNED NULL COMMENT '用户 ID (匿名操作可为空)',
    action VARCHAR(64) NOT NULL COMMENT '操作名称/事件标识',
    path VARCHAR(255) NOT NULL COMMENT '页面路径或操作路径',
    metadata JSON NULL COMMENT '扩展元数据(JSON), 参数等',
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        ip VARCHAR(45) NULL COMMENT 'IP 地址',
        user_agent VARCHAR(512) NULL COMMENT 'User-Agent 信息',
        created_at DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT '记录时间',
        PRIMARY KEY (id),
        KEY idx_activity_user_created (user_id, created_at),
        KEY idx_activity_created (created_at)
    ) ENGINE = InnoDB DEFAULT CHARSET = utf8mb4 COLLATE = utf8mb4_unicode_ci COMMENT
    = '用户行为埋点日志表';

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CREATE TABLE soft_delete_logs (
    id BIGINT UNSIGNED NOT NULL AUTO_INCREMENT COMMENT '主键 ID',
    table_name VARCHAR(64) NOT NULL COMMENT '伪删除记录所属表名',
    record_id BIGINT UNSIGNED NOT NULL COMMENT '被伪删除记录的主键 ID',
    deleter_user_id BIGINT UNSIGNED NULL COMMENT '执行伪删除操作的用户 ID',
    reason VARCHAR(255) NULL COMMENT '伪删除原因',
    deleted_at DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT '伪删除时间',
    extra JSON NULL COMMENT '扩展信息(JSON)，如数据快照等',
    PRIMARY KEY (id),
    KEY idx_soft_delete_table_record (table_name, record_id),
    KEY idx_soft_delete_deleted_at (deleted_at),
    CONSTRAINT fk_soft_delete_deleter FOREIGN KEY (deleter_user_id) REFERENCES
users (id)
) ENGINE = InnoDB DEFAULT CHARSET = utf8mb4 COLLATE = utf8mb4_unicode_ci COMMENT
= '伪删除操作日志表';

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CREATE TABLE user_blacklist_records (
    id BIGINT UNSIGNED NOT NULL AUTO_INCREMENT COMMENT '主键 ID',
    user_id BIGINT UNSIGNED NOT NULL COMMENT '被拉黑的用户 ID',
    operator_user_id BIGINT UNSIGNED NULL COMMENT '执行操作的管理员用户 ID',
    reason VARCHAR(255) NOT NULL COMMENT '拉黑或解封原因',
    status TINYINT(1) NOT NULL COMMENT '状态: 1 拉黑, 0 解封 (历史记录)',
    occurred_at DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT '操作发生
时间',
    PRIMARY KEY (id),
    KEY idx_blacklist_user (user_id, occurred_at),
    CONSTRAINT fk_blacklist_user FOREIGN KEY (user_id) REFERENCES users (id),
    CONSTRAINT fk_blacklist_operator FOREIGN KEY (operator_user_id) REFERENCES
users (id)
) ENGINE = InnoDB DEFAULT CHARSET = utf8mb4 COLLATE = utf8mb4_unicode_ci COMMENT
= '用户黑名单记录表';

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