

1. Настройка прав доступа

Название таблицы	Пользователь	Администратор
anime_seasons	R	CRUD
animes	R	CRUD
content_series	R	CRUD
content_series_seasons	R	CRUD
cartoons	R	CRUD
content	R	CRUD
content_genres	R	CRUD
content_m2m_content_genres	R	CRUD
content_m2m_resolutions	R	CRUD
content_procent_types	R	CRUD
content_subtitles	R	CRUD
content_types	R	CRUD
content_voice_acting	R	CRUD
copyrightholders	R	CRUD
histories	R	CRUD
languages	R	CRUD
content_movies	R	CRUD
profile_types	R	CRUD
profile_types_m2m_contents	R	CRUD
profile_types_m2m_contents _user_subscription_types	R	CRUD
profiles	CRUD	CRUD
ratings	RU	CRUD
resolutions	R	CRUD
series	R	CRUD
series_seasons	R	CRUD
content_url	R	CRUD
user_card_payment_systems	R	CRUD
user_cards	CRUD	CRUD
user_comments	CRUD	CRUD
user_subscription_prices	R	CRUD
user_subscription_types	R	CRUD
user_subscription_types _m2m_resolutions	R	CRUD
user	CRUD	CRUD
users_m2m_user_cards	CRUD	CRUD

```
DROP USER IF EXISTS 'user'@'localhost';  
CREATE USER 'user'@'localhost' IDENTIFIED BY 'user_password';  
GRANT READ ON 'anime_seasons' TO 'user'@'localhost';  
GRANT READ ON 'animes' TO 'user'@'localhost';
```

```

GRANT READ ON 'content_series' TO 'user'@'localhost';
GRANT READ ON 'content_series_seasons' TO 'user'@'localhost';
GRANT READ ON 'cartoons' TO 'user'@'localhost';
GRANT READ ON 'content' TO 'user'@'localhost';
GRANT READ ON 'content_genres' TO 'user'@'localhost';
GRANT READ ON 'content_m2m_content_genres' TO 'user'@'localhost';
GRANT READ ON 'content_m2m_resolutions' TO 'user'@'localhost';
GRANT READ ON 'content_procent_types' TO 'user'@'localhost';
GRANT READ ON 'content_subtitles' TO 'user'@'localhost';
GRANT READ ON 'content_types' TO 'user'@'localhost';
GRANT READ ON 'content_voice_acting' TO 'user'@'localhost';
GRANT READ ON 'copyrightholders' TO 'user'@'localhost';
GRANT READ ON 'histories' TO 'user'@'localhost';
GRANT READ ON 'languages' TO 'user'@'localhost';
GRANT READ ON 'content_movies' TO 'user'@'localhost';
GRANT READ ON 'profile_types' TO 'user'@'localhost';
GRANT READ ON 'profile_types_m2m_contents' TO 'user'@'localhost';
GRANT READ ON 'profile_types_m2m_contents_user_subscription_types' TO 'user'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'profiles' TO 'user'@'localhost';
GRANT READ, UPDATE ON 'ratings' TO 'user'@'localhost';
GRANT READ ON 'resolutions' TO 'user'@'localhost';
GRANT READ ON 'series' TO 'user'@'localhost';
GRANT READ ON 'series_seasons' TO 'user'@'localhost';
GRANT READ ON 'content_url' TO 'user'@'localhost';
GRANT READ ON 'user_card_payment_systems' TO 'user'@'localhost';
GRANT CREATE,READ,UPDATE,DELETE ON 'user_cards' TO 'user'@'localhost';
GRANT CREATE,READ,UPDATE,DELETE ON 'user_comments' TO 'user'@'localhost';
GRANT READ ON 'user_subscription_prices' TO 'user'@'localhost';
GRANT READ ON 'user_subscription_types' TO 'user'@'localhost';
GRANT READ ON 'user_subscription_types_m2m_resolutions' TO 'user'@'localhost';
GRANT CREATE,READ,UPDATE,DELETE ON 'user' TO 'user'@'localhost';
GRANT CREATE,READ,UPDATE,DELETE ON 'users_m2m_user_cards' TO 'user'@'localhost';

```

```

DROP USER IF EXISTS 'admin'@'localhost';
CREATE USER 'admin'@'localhost' IDENTIFIED BY 'admin_password';
GRANT CREATE,READ, UPDATE, DELETE ON 'anime_seasons' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'animes' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content_series' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content_series_seasons' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'cartoons' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content_genres' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content_m2m_content_genres' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content_m2m_resolutions' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content_procent_types' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content_subtitles' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content_types' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content_voice_acting' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'copyrightholders' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'histories' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'languages' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE, READ, UPDATE, DELETE ON 'content_movies' TO
'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'profile_types' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'profile_types_m2m_contents' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'profile_types_m2m_contents_user_subscription_types' TO
'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'profiles' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'ratings' TO 'admin'@'localhost';

```

```

GRANT CREATE,READ, UPDATE, DELETE ON 'resolutions' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'series' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'series_seasons' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'content_url' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'user_card_payment_systems' TO 'admin'@'localhost';
GRANT CREATE,READ,UPDATE,DELETE ON 'user_cards' TO 'admin'@'localhost';
GRANT CREATE,READ,UPDATE,DELETE ON 'user_comments' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'user_subscription_prices' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'user_subscription_types' TO 'admin'@'localhost';
GRANT CREATE,READ, UPDATE, DELETE ON 'user_subscription_types_m2m_resolutions' TO
'admin'@'localhost';
GRANT CREATE,READ,UPDATE,DELETE ON 'user' TO 'admin'@'localhost';
GRANT CREATE,READ,UPDATE,DELETE ON 'users_m2m_user_cards' TO 'admin'@'localhost';

```

2. Настройка кодировок

```

ALTER TABLE anime_seasons CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE animes CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE content_series CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE content_series_seasons CONVERT TO CHARACTER SET 'utf8' COLLATE
'utf8_unicode_ci';
ALTER TABLE cartoons CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE content CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE content_genres CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE content_m2m_content_genres CONVERT TO CHARACTER SET 'utf8' COLLATE
'utf8_unicode_ci';
ALTER TABLE content_m2m_resolutions CONVERT TO CHARACTER SET 'utf8' COLLATE
'utf8_unicode_ci';
ALTER TABLE content_procent_types CONVERT TO CHARACTER SET 'utf8' COLLATE
'utf8_unicode_ci';
ALTER TABLE content_subtitles CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE content_types CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE content_voice_acting CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE copyrightholders CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE histories CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE languages CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE content_movies CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE profile_types CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE profile_types_m2m_contents CONVERT TO CHARACTER SET 'utf8' COLLATE
'utf8_unicode_ci';
ALTER TABLE profile_types_m2m_contents_user_subscription_types CONVERT TO CHARACTER SET
'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE profiles CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE ratings CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE resolutions CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE series CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE series_seasons CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE content_url CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE user_card_payment_systems CONVERT TO CHARACTER SET 'utf8' COLLATE
'utf8_unicode_ci';
ALTER TABLE user_cards CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE user_comments CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE user_subscription_prices CONVERT TO CHARACTER SET 'utf8' COLLATE
'utf8_unicode_ci';
ALTER TABLE user_subscription_types CONVERT TO CHARACTER SET 'utf8' COLLATE
'utf8_unicode_ci';
ALTER TABLE user_subscription_types_m2m_resolutions CONVERT TO CHARACTER SET 'utf8'
COLLATE 'utf8_unicode_ci';

```

```
ALTER TABLE user CONVERT TO CHARACTER SET 'utf8' COLLATE 'utf8_unicode_ci';
ALTER TABLE users_m2m_user_cards CONVERT TO CHARACTER SET 'utf8' COLLATE
'utf8_unicode_ci';
```

3. Настройка методов доступа

```
ALTER TABLE anime_seasons ENGINE = InnoDB;
ALTER TABLE animes ENGINE = InnoDB;
ALTER TABLE content_series ENGINE = InnoDB;
ALTER TABLE content_series_seasons ENGINE = InnoDB;
ALTER TABLE cartoons ENGINE = InnoDB;
ALTER TABLE content ENGINE = InnoDB;
ALTER TABLE content_genres ENGINE = InnoDB;
ALTER TABLE content_m2m_content_genres ENGINE = InnoDB;
ALTER TABLE content_m2m_resolutions ENGINE = InnoDB;
ALTER TABLE content_procent_types ENGINE = InnoDB;
ALTER TABLE content_subtitles ENGINE = InnoDB;
ALTER TABLE content_types ENGINE = InnoDB;
ALTER TABLE content_voice_acting ENGINE = InnoDB;
ALTER TABLE copyrightholders ENGINE = InnoDB;
ALTER TABLE histories ENGINE = InnoDB;
ALTER TABLE languages ENGINE = InnoDB;
ALTER TABLE content_movies ENGINE = InnoDB;
ALTER TABLE profile_types ENGINE = InnoDB;
ALTER TABLE profile_types_m2m_contents ENGINE = InnoDB;
ALTER TABLE profile_types_m2m_contents_user_subscription_types ENGINE = InnoDB;
ALTER TABLE profiles ENGINE = InnoDB;
ALTER TABLE ratings ENGINE = InnoDB;
ALTER TABLE resolutions ENGINE = InnoDB;
ALTER TABLE series ENGINE = InnoDB;
ALTER TABLE series_seasons ENGINE = InnoDB;
ALTER TABLE content_url ENGINE = InnoDB;
ALTER TABLE user_card_payment_systems ENGINE = InnoDB;
ALTER TABLE user_cards ENGINE = InnoDB;
ALTER TABLE user_comments ENGINE = InnoDB;
ALTER TABLE user_subscription_prices ENGINE = InnoDB;
ALTER TABLE user_subscription_types ENGINE = InnoDB;
ALTER TABLE user_subscription_types_m2m_resolutions ENGINE = InnoDB;
ALTER TABLE user ENGINE = InnoDB;
ALTER TABLE users_m2m_user_cards ENGINE = InnoDB;
```

4. Добавление необходимых индексов

```
ALTER TABLE `anime_seasons`
ADD CONSTRAINT `FK_anime_seasons_animes`
FOREIGN KEY (`a_id`) REFERENCES `animes` (`a_id`) ON DELETE Restrict ON UPDATE Restrict;

ALTER TABLE `content`
ADD CONSTRAINT `FK_content_content_types`
FOREIGN KEY (`ct_id`) REFERENCES `content_types` (`ct_id`) ON DELETE No Action ON UPDATE
Cascade;

ALTER TABLE `content`
ADD CONSTRAINT `FK_content_copyrightholders`
FOREIGN KEY (`ch_id`) REFERENCES `copyrightholders` (`ch_id`) ON DELETE No Action ON
UPDATE Cascade;

ALTER TABLE `content_m2m_content_genres`
ADD CONSTRAINT `FK_content_m2m_content_genres_content`
```

```
FOREIGN KEY (`c_id`, `ct_id`) REFERENCES `content` (`c_id`, `ct_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `content_m2m_content_genres`  
ADD CONSTRAINT `FK_content_m2m_content_genres_content_genres`  
FOREIGN KEY (`cg_id`) REFERENCES `content_genres` (`cg_id`) ON DELETE Cascade ON UPDATE Cascade;
```

```
ALTER TABLE `content_m2m_resolutions`  
ADD CONSTRAINT `FK_content_m2m_resolutions_content`  
FOREIGN KEY (`c_id`, `ct_id`) REFERENCES `content` (`c_id`, `ct_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `content_m2m_resolutions`  
ADD CONSTRAINT `FK_content_m2m_resolutions_resolutions`  
FOREIGN KEY (`r_id`) REFERENCES `resolutions` (`r_id`) ON DELETE Cascade ON UPDATE Cascade;
```

```
ALTER TABLE `content_movies`  
ADD CONSTRAINT `FK_content_movies_content`  
FOREIGN KEY (`ct_id`, `c_id`) REFERENCES `content` (`c_id`, `ct_id`) ON DELETE Cascade ON UPDATE Cascade;
```

```
ALTER TABLE `content_series_seasons`  
ADD CONSTRAINT `FK_content_series_seasons_content_series`  
FOREIGN KEY (`ct_id`, `c_id`) REFERENCES `content_series` (`ct_id`, `c_id`) ON DELETE No Action ON UPDATE Cascade;
```

```
ALTER TABLE `content_subtitles`  
ADD CONSTRAINT `FK_content_subtitles_content`  
FOREIGN KEY (`ct_id`, `c_id`) REFERENCES `content` (`c_id`, `ct_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `content_subtitles`  
ADD CONSTRAINT `FK_content_subtitles_languages`  
FOREIGN KEY (`L_literal_code`) REFERENCES `languages` (`L_literal_code`) ON DELETE No Action ON UPDATE Cascade;
```

```
ALTER TABLE `content_url`  
ADD CONSTRAINT `FK_content_url_content_series_seasons`  
FOREIGN KEY (`ct_id`, `c_id`, `css_id`) REFERENCES `content_series_seasons`  
(`ct_id`, `c_id`, `css_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `content_voice_acting`  
ADD CONSTRAINT `FK_content_voice_acting_content`  
FOREIGN KEY (`ct_id`, `c_id`) REFERENCES `content` (`c_id`, `ct_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `content_voice_acting`  
ADD CONSTRAINT `FK_content_voice_acting_languages`  
FOREIGN KEY (`L_literal_code`) REFERENCES `languages` (`L_literal_code`) ON DELETE No Action ON UPDATE Cascade;
```

```
ALTER TABLE `copyrightholders`  
ADD CONSTRAINT `FK_copyrightholders_content_procent_types`  
FOREIGN KEY (`cpt_id`) REFERENCES `content_procent_types` (`cpt_id`) ON DELETE No Action ON UPDATE Cascade;
```

```
ALTER TABLE `histories`  
ADD CONSTRAINT `FK_histories_content`
```

```
FOREIGN KEY (`c_id`, `ct_id`) REFERENCES `content` (`c_id`, `ct_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `histories`  
ADD CONSTRAINT `FK_histories_users`  
FOREIGN KEY (`u_id`) REFERENCES `user` (`u_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `profile_types_m2m_contents`  
ADD CONSTRAINT `FK_profile_types_m2m_contents_content`  
FOREIGN KEY (`c_id`, `ct_id`) REFERENCES `content` (`c_id`, `ct_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `profile_types_m2m_contents`  
ADD CONSTRAINT `FK_profile_types_m2m_contents_profile_types`  
FOREIGN KEY (`pt_id`) REFERENCES `profile_types` (`pt_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `profile_types_m2m_contents_user_subscription_types`  
ADD CONSTRAINT  
`FK_profile_types_m2m_contents_user_subscription_types_profile_types_m2m_contents`  
FOREIGN KEY (`c_id`, `pt_id`, `ct_id`) REFERENCES `profile_types_m2m_contents`  
(`c_id`, `pt_id`, `ct_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `profile_types_m2m_contents_user_subscription_types`  
ADD CONSTRAINT  
`FK_profile_types_m2m_contents_user_subscription_types_user_subscription_types`  
FOREIGN KEY (`ust_id`) REFERENCES `user_subscription_types` (`ust_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `profiles`  
ADD CONSTRAINT `FK_profiles_profile_types`  
FOREIGN KEY (`pt_id`) REFERENCES `profile_types` (`pt_id`) ON DELETE No Action ON UPDATE Cascade;
```

```
ALTER TABLE `profiles`  
ADD CONSTRAINT `FK_profiles_users`  
FOREIGN KEY (`u_id`) REFERENCES `user` (`u_id`) ON DELETE Cascade ON UPDATE Cascade;
```

```
ALTER TABLE `ratings`  
ADD CONSTRAINT `FK_ratings_content`  
FOREIGN KEY (`ct_id`, `r_id`) REFERENCES `content` (`c_id`, `ct_id`) ON DELETE Cascade ON UPDATE Cascade;
```

```
ALTER TABLE `series_seasons`  
ADD CONSTRAINT `FK_series_seasons_series`  
FOREIGN KEY (`s_id`) REFERENCES `series` (`s_id`) ON DELETE Restrict ON UPDATE Restrict;
```

```
ALTER TABLE `user`  
ADD CONSTRAINT `FK_users_user_sybscription_types`  
FOREIGN KEY (`ust_id`) REFERENCES `user_subscription_types` (`ust_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `user_cards`  
ADD CONSTRAINT `FK_user_cards_user_card_payment_systems`  
FOREIGN KEY (`ucps_id`) REFERENCES `user_card_payment_systems` (`ucps_id`) ON DELETE No Action ON UPDATE Cascade;
```

```
ALTER TABLE `user_comments`  
ADD CONSTRAINT `FK_user_comments_content`  
FOREIGN KEY (`c_id`, `ct_id`) REFERENCES `content` (`c_id`, `ct_id`) ON DELETE Restrict ON
```

UPDATE Cascade;

```
ALTER TABLE `user_comments`  
ADD CONSTRAINT `FK_user_comments_users`  
FOREIGN KEY (`u_id`) REFERENCES `user` (`u_id`) ON DELETE Restrict ON UPDATE Cascade;
```

```
ALTER TABLE `user_subscription_types`  
ADD CONSTRAINT `FK_user_sybscription_types_user_subscription_prices`  
FOREIGN KEY (`usp_id`) REFERENCES `user_subscription_prices` (`usp_id`) ON DELETE No Action  
ON UPDATE Cascade;
```

```
ALTER TABLE `user_subscription_types_m2m_resolutions`  
ADD CONSTRAINT `FK_user_subscription_types_m2m_resolutions_resolutions`  
FOREIGN KEY (`r_id`) REFERENCES `resolutions` (`r_id`) ON DELETE Cascade ON UPDATE  
Cascade;
```

```
ALTER TABLE `user_subscription_types_m2m_resolutions`  
ADD CONSTRAINT `FK_user_subscription_types_m2m_resolutions_user_subscription_types`  
FOREIGN KEY (`ust_id`) REFERENCES `user_subscription_types` (`ust_id`) ON DELETE Restrict ON  
UPDATE Cascade;
```

```
ALTER TABLE `users_m2m_user_cards`  
ADD CONSTRAINT `FK_users_m2m_user_cards_user_cards`  
FOREIGN KEY (`uc_number`) REFERENCES `user_cards` (`uc_number`) ON DELETE No Action ON  
UPDATE Cascade;
```

```
ALTER TABLE `users_m2m_user_cards`  
ADD CONSTRAINT `FK_users_m2m_user_cards_users`  
FOREIGN KEY (`u_id`) REFERENCES `user` (`u_id`) ON DELETE Restrict ON UPDATE Cascade;
```