



KAEDEANIMELIST

CFG: Data & SQL

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Calling all otaku! Submit your otaku quiz questions to new quiz app Otaku Judge

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Top Airing Anime

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- 

Kingdom 4th Season [add](#)

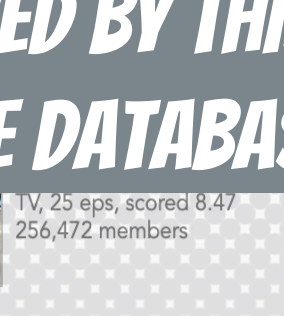
TV, 26 eps, scored 8.79
35,537 members
- 

Made in Abyss: Retsujitsu no Ougonkyou [add](#)

TV, 12 eps, scored 8.73
244,053 members

Summer 2022 Anime

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INSPIRED BY THIS!

→ CREATING ANIME DATABASE



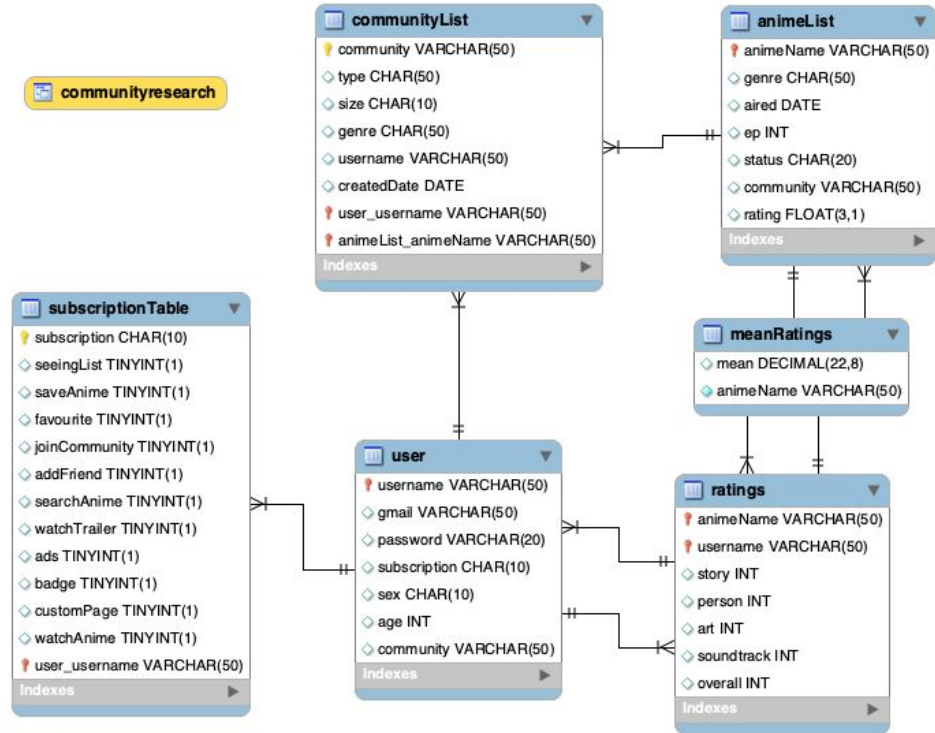
TV, 25 eps, scored 8.47
256,472 members



1.

CORE REQUIREMENTS

ER DIAGRAM



animeList

animeName	genre	aired	ep	status	community	rating
5-toubun no hanayome	romance	20/05/2022	1	completed	movie night	7
aharen-san	comedy	02/04/2022	12	completed	school life	7.3
ao ashi	sports	09/04/2022	24	completed	sportsmanship	6.9

```
CREATE TABLE meanRatings AS
SELECT AVG((r.story + r.person + r.art + r.soundtrack + r.overall)/5) AS mean, animeName
FROM ratings r
GROUP BY r.animeName;
```

```
ALTER TABLE animeList
ADD rating float(3,1);
```

```
UPDATE animeList a
SET a.rating =
(SELECT mean
FROM meanRatings m
WHERE a.animeName=m.animeName);
```

animeName	username	story	person	art	soundtrack	overall
5-toubun no hanayome	alexleach	5	6	4	6	7
5-toubun no hanayome	linahood	9	10	9	10	10
5-toubun no hanayome	rileyatkins	5	6	4	6	8

ratings

user

username	gmail	password	subscription	sex	age	community
alexanderson	pinkalex@gmail.com	bullfinch1011	premium	male	81	sportmanship
alexleach	slatealex@gmail.com	squid2909	standard	female	24	sportsmanship
annabeasley	greenanna@gmail.com	nightjar2511	premium	female	33	mysterious death

subscriptionTable

subscription	seeingList	saveAnime	favourite	joinCommunity	addFriend	searchAnime	watchTrailer	ads	badge	customPage	watchAnime
essential	1	1	1	1	1	1	1	0	0	0	0
premium	1	1	1	1	1	1	1	1	1	1	1
standard	1	1	1	1	1	1	1	1	1	1	0

Function to check sign-in details

```
DELIMITER //
CREATE FUNCTION signin(
    entered_gmail VARCHAR(50),
    entered_password VARCHAR(50)
)
RETURNS VARCHAR(20)
DETERMINISTIC
BEGIN
    DECLARE login_status VARCHAR(20);
    IF EXISTS(SELECT * FROM USER WHERE gmail=entered_gmail AND password=entered_password) THEN
        SET login_status = 'Success';
    ELSE
        SET login_status = 'Rejected';
    END IF;
    RETURN (login_status);
END//
DELIMITER ;
```



DEMO

communityList

community	type	size	genre	username	createdDate
anya fans	single anime	medium	action	etheldoyle	01/06/2022
boruto	single anime	large	action	rondallhaley	04/03/2020
boundary between war	multiple anime	medium	sci-fi	rickcarr	03/06/2022

```
CREATE VIEW communityResearch AS
(SELECT u.community, AVG(u.age) AS age, COUNT(CASE WHEN
u.sex='male' THEN 1 END) AS male, COUNT(CASE WHEN u.sex='female'
THEN 1 END) AS female
FROM user u
JOIN
communityList c
ON u.community = c.community
GROUP BY u.community);
```

community	age	male	female
sportsmanship	35	2	1
mysterious death	44.5	2	2
rikejyo	30	0	1



2.

ADVANCED OPTIONS

Procedure to check subscription by entering username



DEMO

```
DELIMITER //  
CREATE PROCEDURE see_subscription(  
mySubscription VARCHAR(50)  
)  
BEGIN  
    IF (SELECT subscription FROM user WHERE username = mySubscription) = "essential" THEN  
        SELECT * FROM subscriptionTable WHERE subscription = "essential";  
    ELSEIF (SELECT subscription FROM user WHERE username = mySubscription) = "standard" THEN  
        SELECT * FROM subscriptionTable WHERE subscription = "standard";  
    ELSEIF (SELECT subscription FROM user WHERE username = mySubscription) = "premium" THEN  
        SELECT * FROM subscriptionTable WHERE subscription = "premium";  
    END IF;  
END//  
DELIMITER ;
```

Group-by analysis on rating of genre

```
SELECT genre, avg(rating) AS genre_rating, RANK() OVER(ORDER BY  
AVG(rating) DESC) AS ranking  
FROM animeList  
GROUP BY genre;
```

genre	genre_rating	ranking
drama	9.5	1
adventure	8.15	2
comedy	7.81667	3

THANKS!



Any questions?

(Connect with me through LinkedIn – “Kaede Hasegawa”)