This is a project I did for my bootcamp at brainstation. I will start with the issues that I faced and how I resolved it

- 1.I downloaded the CVS file and the json data in the file. I could not clear it using the various excel techniques. So my husband helped me with a python script(have to learn python he he) and with that I was able to clean the excel.
- 2. The next thing I face is the issue with special characters. I tried various methods including creating multiple columns in excel and changing one special character and even find and replace method but since there are multiple characters it is hard. So my instructor said he will help me
- 3. The next was using what I learned in class. I used the table import wizard in mysql to import the csv,but all the records were not getting pulled. So I decided to do it manually.
- 4.So manually I created a table using the create table movie_dataset and then used this code

LOAD DATA local INFILE 'C:/Users/Maithreyee/Downloads/movies_dataset.csv' INTO TABLE movies_data
FIELDS TERMINATED BY ','
ENCLOSED BY ""
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;

- 5. When I used this I got an error 1290 saying –sercure-file-prive in mysql.Due to this I could not import.
- a.So using the internet I searched and found where I go to **C drive** in that I click on view on the top bar and click on hidden item box.
- b. When I click on that I got ProgramData which was one of the file path mentioned then C:/ProgramData/MySQL/MySQL Server 8.0.
- c.Once I reach here I click on a file named **my** and in that search for this variable sercure-file-prive and change its path to null.So originally it was sercure-file-prive='C:/ProgramData/MySQL/MySQL Server 8.0./Uploads now it is sercure-file-prive="".
- d. After changing it I tried to run code in point four again, the same error was coming 2064 was still popping so what I was suppose to do was

Using service on your desktop stop MYSQL 80 service then restart the service again then restart the workbench again ,then the variable sercure-file-prive=" " was set to null.

- e.I got error 30 which is permission denied for this I had to include the command local in the code LOAD DATA INFILE will now become LOAD DATA LOCAL INFILE
- f. After this happened we experienced an other error which is error 3948 which is local data disabled so for this in mysql workbench

Show global variables like 'local_infile';

It is not true then

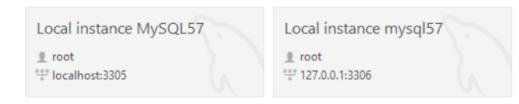
Set global local_infile =true.

G. I get the error 2068 which is restriction on access to root user hence file request rejected.

So for this I have go to my mysql connection page

Browse Documentation >

MySQL Connections ⊕ ⊗

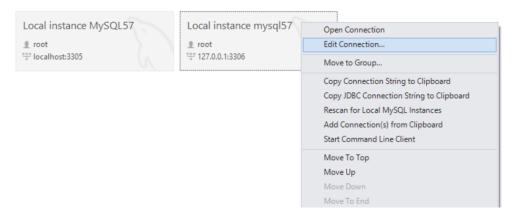


Then left click and click on edit connection

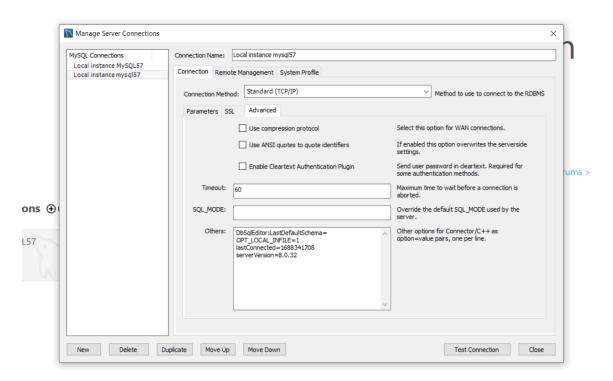
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MySQL Connections ⊕ ⊗



Then click on advanced option and in others typeopt_local_infile=1



After doing this I ran the command in point 4 and it worked but not all rows came so will check the schema of the database.

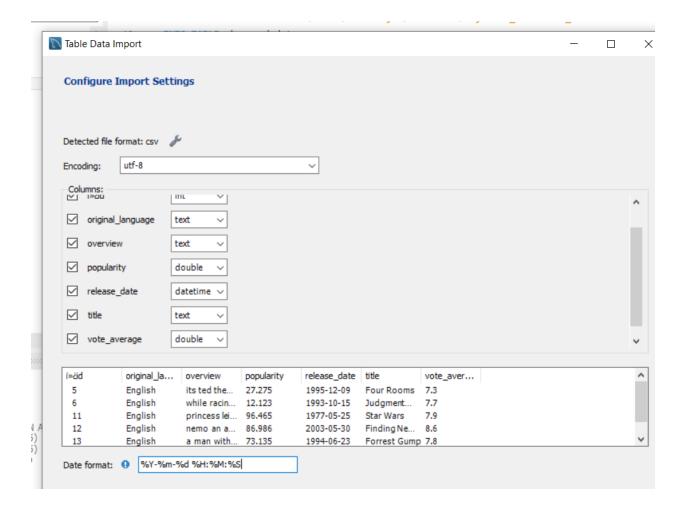
After you import kindly look into the command ,don't just copy paste understand and make changes accordingly

- 1. **LOAD DATA INFILE** It specifies the location of the input CSV file.
- 2. **INTO TABLE** It specifies the table into which data is to be populated.
- 3. **FIELDS TERMINATED BY** It specifies the delimiter through which the individual values in the file are separated.
- 4. **ENCLOSED BY** It specifies the symbol which specifies the values in the CSV file.
- 5. **LINES TERMINATED BY** It specifies the code for a line break.
- 6. **IGNORE 1 ROWS** It specifies the number of lines to be ignored from an input CSV file which might contain column labels, etc.

LOAD DATA local INFILE 'C:/Users/Maithreyee/Downloads/movies_dataset.csv' INTO TABLE movies_data
FIELDS TERMINATED BY ','
ENCLOSED BY ""
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;

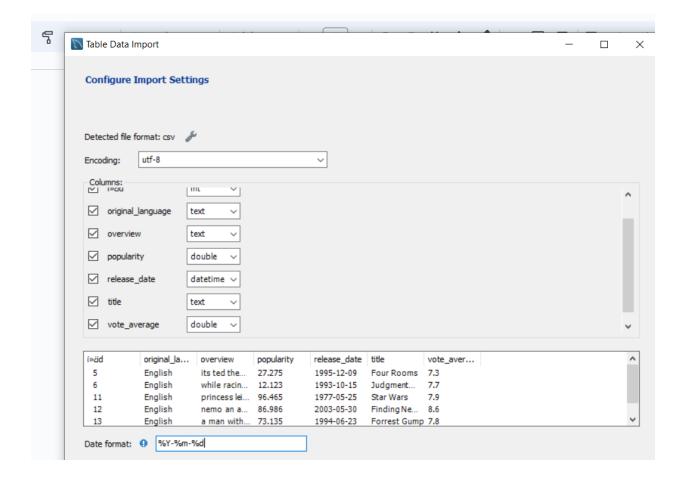
While loading the database into the mysql workbench I got into a lot of problems

- 1.One is a special character. If you want import with it it will lead to an error saying encoding is not possible. So you have to run a script to change the special characters with a null space
- 2.Even mentioning date make sure you check the format as mysql is the format of yyyy-mm-dd so make the change accordingly.
- 3. Be very careful while adding the date type in the import wizard as even a space can cause error while importing values.

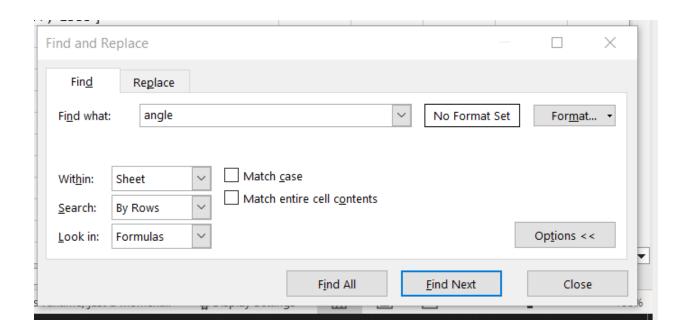


Now in the above there is %H %M%S remove that as you do t have the timestamp and make sure there is no space after %d as sql thinks there is space after you release date so be very careful

Below is the image as how it should be done.



- 4. There won't be a proper unique value for you to put it as primary key ,so you combine two keys and form a super key to import values.
- 5. Sometime when data is separated by comma replace it with semicolon because of this line of code 'FIELDS TERMINATED BY'," will cause it to terminate
- 6.Empty cells in the excel because of which data won't get imported so in such a case add values like 0 in case of numbers and in case of string add N/A and in case of date add 9999-09-09
- 7. When names are given in the excel sometime the names would be in the form of +@Yuki this leads to the error #NAME?.So to remove this use CTRL +F and in that dialogue box where **look in** is present change from Formulas and Values and then you can change the values manually.



So I started my analysis so I am doing a profile of the database

1.So I have two databases on anime so I am combining two databases to find the common records, before I do this I will do individual analysis

Anime_new database

No of rows in the anime_table -16217

select distinct *
from anime_new an;

No of rows in review-**192117** select * from review;

No of rows in profile-81727 select * from profile

Now I am exploring each table individually.

Profile table

Q.Trying to find no of male and female users in the table

Query

select gender,count(profile) as no from profile group by gender;

Note-Change the where clause to male

No of female records is -16018 No of male records- 37096 No of non binary-28631.

Note- When the results came out I saw four column as non binary has been specified in two different ways

Male 21196

Female 9269

Non Binary 17011

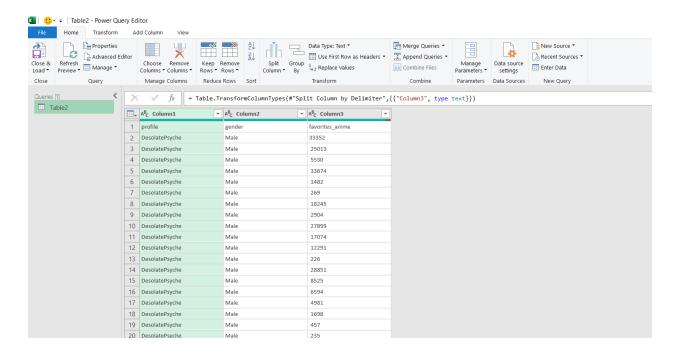
Non-Binary 426

Q.Who has the most no of favorite animes of each user give the top ten

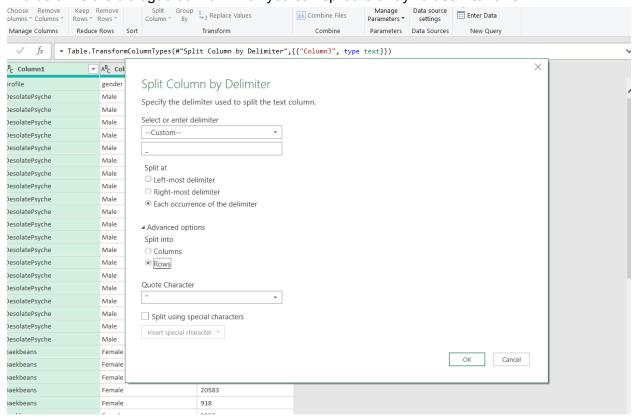
So for this question I had to split the array [9253;5514;1535] into multiple rows so that I could count the numbers of anime each user has watched and the top favorite anime watched.

To do this I used the power query tool in excel where there is an option called split columns and in that I got another option called split rows. So I split it into rows and uploaded my data set and after that. With this I am able to answer my above question.

So this is power query



And below is the dialogue box for which you can split the array values into rows.



Now will answer the question with the query .The top user with most watched anime

select distinct profile,count(favorites_anime)as total_anime from profile group by profile order by total_anime DESC limit 10;

AnimeFlyz 20 AnimeMarathon 20 aliyn89 20 -asphyxia-20 71 20 animejas 20 animesthabomb 20 20 10q anime-prime 20 anime_feels 20

Q .What are the top watched anime among users?

select favorites_anime,count(favorites_anime) as top_watched_anime from profile group by favorites_anime order by top_watched_anime DESC limit 11;

ld	coun
5114	4919
9253	4627
1535	3363
11061	3152
4181	2796
1575	2782

Q. Now a follow up question, what are the titles of these anime ids?

select favorites_anime, count(*) as total_no,a.title from profile p
left join anime_new a on a.anime_id= p.favorites_anime group by favorites_anime,a.title
order by total_no DESC;

5114	4919	Fullmetal Alchemist: Brotherhood
9253	4627	Steins;Gate
1535	3363	Death Note
11061	3152	Hunter x Hunter (2011)
4181	2796	Clannad: After Story
1575	2782	Code Geass: Hangyaku no Lelouch
2001	2641	Tengen Toppa Gurren Lagann
1	2401	Cowboy Bebop
30	2318	Neon Genesis Evangelion
21	2131	One Piece

Now analysis on Review

Q. Which user has rated the most number of anime

Profile	id
Sidewinder51	762
Stark700	743
ktulu007	648
LegendAqua	566
ggultra2764	491
literaturenerd	464
BanjoTheBear	390
PyraXadon	388
BabyGirl06301	328
angelsreview	321

I wanted to give the userid as well along with their profiles but I realized that they have rated using different user id due to which I cannot give the user id along with their profile.

How I found this was checked the uid of the second profile

select uid from review where profile='Stark700';

And with this got multiple user id so I realized I will not get the correct answer.

Q.Now in the review table I want to find the anime with the top score and most votes.

select r.anime_id,r.score,a.title,count(r.profile) as no_of_votes from review r
left join anime_new a on r.anime_id=a.anime_id
group by r.anime_id,r.score,a.title
order by r.score DESC, no_of_votes DESC
limit 10;

ıime_id	ore	title	o_of_votes
413	11	Hametsu no Mars	1
9253	10	Steins;Gate	858
5114	10	Fullmetal Alchemist: Brotherhood	840
4181	10	Clannad: After Story	818
32281	10	Kimi no Na wa.	710
1535	10	Death Note	708
2001	10	Tengen Toppa Gurren Lagann	460
9756	10	Mahou Shoujo Madokaâ~Magica	448
4224	10	Toradora!	438
1575	10	Code Geass: Hangyaku no Lelouch	420
21	10	One Piece	416

Q. What is the anime with the least score and votes.

select r.anime_id,r.score,a.title,count(r.profile) as no_of_votes from review r
left join anime_new a on r.anime_id=a.anime_id
group by r.anime_id,r.score,a.title
order by r.score , no_of_votes ;

Anime	e_id	score	title	no_of_votes
2	19	1	Kidou Senkan Nadesico: The Prince of Darkness	1
29	9906	1	Kakari	1
14	1 6	1	Kono Minikuku mo Utsukushii Sekai	1
56	522	1	The Chocolate Panic Picture Show	1
35	5971	1	Onyankopon	1
89	925	1	Kobe to Watashi	1
22	232	1	Funny Pets	1
3′	1267	1	Akuma no Kairozu	1
16	692	1	Jigoku Youchien	1
11	102	1	Urda	1

Q. Which anime have the least overall score and the most overall score?

With this I realized that score and overall score are the same.

413	11	Hametsu no Mars	1
9253	10	Steins;Gate	858
5114	10	Fullmetal Alchemist: Brotherhood	840
4181	10	Clannad: After Story	818
32281	10	Kimi no Na wa.	710
1535	10	Death Note	708
2001	10	Tengen Toppa Gurren Lagann	460
9756	10	Mahou Shoujo Madokaâ~Magica	448

21	4.0	One Piece	416
1575	10	Code Geass: Hangyaku no Lelouch	420
4224	10	Toradora!	438

Now the least score

219	1	Kidou Senkan Nadesico: The Prince of Darkness	1
29906	1	Kakari	1
146	1	Kono Minikuku mo Utsukushii Sekai	1
5622	1	The Chocolate Panic Picture Show	1
35971	1	Onyankopon	1
8925	1	Kobe to Watashi	1
2232	1	Funny Pets	1
31267	1	Akuma no Kairozu	1
16692	1	Jigoku Youchien	1
1102	1	Urda	1

Q. Let us find the anime with the best stories and the worst stories

select r.anime_id,r.story,a.title,count(r.profile) as no_of_votes from review r
left join anime_new a on r.anime_id=a.anime_id
group by r.anime_id,r.story,a.title
order by r.story , no_of_votes ;

Best

413	11	Hametsu no Mars	1
9253	10	Steins;Gate	906
1535	10	Death Note	820
5114	10	Fullmetal Alchemist: Brotherhood	810
4181	10	Clannad: After Story	762
9756	10	Mahou Shoujo Madokaâ~Magica	490
21	10	One Piece	450
1575	10	Code Geass: Hangyaku no Lelouch	440
32281	10	Kimi no Na wa.	430
2001	10	Tengen Toppa Gurren Lagann	364
9989	10	Ano Hi Mita Hana no Namae wo Bokutachi wa Mada Shiranai.	342

Worst

29317	1	Saenai Heroine no Sodatekata: Ai to Seishun no Service-kai	1
29597	1	Hana	1
29617	1	Good-by Elvis and USA	1
29771	1	Recorder	1
29854	1	Ushio to Tora (TV)	1
29906	1	Kakari	1
29908	1	Kodomo no Kaitei no Koto	1
29979	1	Petting a Dog	1
30100	1	Black Bullet: Tenchuuï1/4ŠGirls	1

Q. The anime with the best animation and the worst animation

select r.anime_id,r.animation,a.title,count(r.profile) as no_of_votes from review r
left join anime_new a on r.anime_id=a.anime_id
group by r.anime_id,r.animation,a.title
order by r.animation , no_of_votes ; just add DESC to get the best in the order by clause

Best

	32281	10	Kimi no Na wa.	1010
	33352	10	Violet Evergarden	626
	1535	10	Death Note	564
	5114	10	Fullmetal Alchemist: Brotherhood	548
	4181	10	Clannad: After Story	512
	9253	10	Steins;Gate	400
	9756	10	Mahou Shoujo Madokaâ~Magica	388
	2001	10	Tengen Toppa Gurren Lagann	350
	30276	10	One Punch Man	350
	38000	10	Kimetsu no Yaiba	298
Wo	orst			
	34631	1	Aitata Bocchi	1
	38851	1	Virtual-san wa Miteiru	1
	35739	1	Pikotarou no Lullaby Lullaby (TV)	1
	30328	1	Head Spoon	1

28637	1	Dreams	1
33948	1	Hinako Note	1
22157	1	Yasashii Kinyoubi	1
6950	1	Aos	1
3533	1	Gakuentoshi Varanoir Joukan	1
7024	1	Неуа	1

Q. The anime with the best sound and the worst sound effects.

select r.anime_id,r.sound,a.title,count(r.profile) as no_of_votes from review r
left join anime_new a on r.anime_id=a.anime_id
group by r.anime_id,r.sound,a.title
order by r.sound DESC, no_of_votes DESC;

Remove DESC to get the worst in order by clause.

Best anime with sound effects

32281	10	Kimi no Na wa.	648
1535	10	Death Note	632
4181	10	Clannad: After Story	618
5114	10	Fullmetal Alchemist: Brotherhood	606
9253	10	Steins;Gate	522
9756	10	Mahou Shoujo Madokaâ~Magica	476
1	10	Cowboy Bebop	474
2001	10	Tengen Toppa Gurren Lagann	406
33352	10	Violet Evergarden	338
9989	10	Ano Hi Mita Hana no Namae wo Bokutachi wa Mada Shiranai.	322

Worst

2524	1	Jungle de Ikou!	1
10838	1	Double-J	1
1611	1	Galerians: Rion	1
5624	1	Biohazard 4D-Executer	1
33274	1	Onara Gorou	1
38162	1	Rinshi!! Ekoda-chan	1
9330	1	Dragon Crisis!	1
34631	1	Aitata Bocchi	1
37952	1	Shoumetsu Toshi	1
38851	1	Virtual-san wa Miteiru	1

Q. The anime with the best and the worst characters.

select r.anime_id,r.characters,a.title,count(r.profile) as no_of_votes from review r
left join anime_new a on r.anime_id=a.anime_id
group by r.anime_id,r.characters,a.title
order by r.characters DESC , no_of_votes DESC ;

Best characters

9253	10	Steins;Gate	862
5114	10	Fullmetal Alchemist: Brotherhood	810
1535	10	Death Note	780
4181	10	Clannad: After Story	772
4224	10	Toradora!	556

21	10	One Piece	484
2001	10	Tengen Toppa Gurren Lagann	476
1575	10	Code Geass: Hangyaku no Lelouch	424
32281	10	Kimi no Na wa.	378
9756	10	Mahou Shoujo Madokaâ~Magica	368

Worst characters

340	1	Mutsu Enmei Ryuu Gaiden: Shura no Toki	1
630	1	Mahoutsukai Tai!	1
285	1	Argento Soma	1
1192	1	Kakurenbo	1
4066	1	Tytania	1
1654	1	Kashimashi: Girl Meets Girl - Shoujo wa Shoujo ni Koi wo Shita	1
30806	1	Schwarzesmarken	1
29854	1	Ushio to Tora (TV)	1
67	1	Basilisk: Kouga Ninpou Chou	1
34866	1	Yuâ~†Giâ~†Oh! VRAINS	1

Q. Anime which people enjoyed

select r.anime_id,r.enjoyment,a.title,count(r.profile) as no_of_votes from review r
left join anime_new a on r.anime_id=a.anime_id
group by r.anime_id,r.enjoyment,a.title
order by r.enjoyment DESC , no_of_votes DESC ;

Best

9253	10	Steins;Gate	946
5114	10	Fullmetal Alchemist: Brotherhood	884
4181	10	Clannad: After Story	828
1535	10	Death Note	798
32281	10	Kimi no Na wa.	776
2001	10	Tengen Toppa Gurren Lagann	620
4224	10	Toradora!	582
9756	10	Mahou Shoujo Madokaâ~Magica	520
1575	10	Code Geass: Hangyaku no Lelouch	516
21	10	One Piece	484

Worst

2263	1	Sonica~thea~Hedgehog	1
7580	1	Ikkitousen: Xtreme Xecutor	1
4066	1	Tytania	1
1654	1	Kashimashi: Girl Meets Girl - Shoujo wa Shoujo ni Koi wo Shita	1
11319	1	Zero no Tsukaima F	1
29854	1	Ushio to Tora (TV)	1
430	1	Fullmetal Alchemist: The Conqueror of Shamballa	1
34321	1	Fate/Grand Order: First Order	1
4548	1	Yozakura Quartet	1

Now let me do a distribution analysis on each of characteristic used to rate an anime

Count	score	overal	l story	animatio	on sound	d characters	enjoyment
0	91	91	8663	8799	9212	8878	9324
1	3554	3554	5929	1777	1864	6306	5508
2	3814	3814	4618	1425	1386	4824	4153
3	7196	7196	9018	2932	2858	7769	6360
4	7533	7533	7195	3892	4192	6459	5991
5	11150	11150	12251	7578	9113	10442	9015
6	16495	16495	19491	15187	17129	15396	12656
7	25821	25821	27126	29592	30473	22639	19647
8	34805	34805	31804	40759	39066	29537	27526
9	39685	39685	29163	37662	34069	39138	32641
10	41972	41972	36858	42513	42754	47728	59295
11	1	1	1	1	1	1	1

So here 0 signifies that these anime have not been rated.

The code which I used is

select count(*)
from review
where enjoyment =11;

Here i changed the where condition with score, overall, story, animation, sound, characters, enjoyment

Now let me do the average for the above set of parameters.

Average	score	overall	story	animation	sound	characters	enjoyment
	7.56	7.56	6.89	7.58	7.49	7.14	7.4
select a from rev	vg(sound) view;						

story

1324572

animation

1455318

sound characters

1370985

1438328

enjoyment

1422336

select sum(enjoyment) from review;

score

1453705

Sum

Now let us do an analysis on anime_new table

overall

1453705

Q. Sort the anime_new table according to most popular series

select * from
anime_new
order by popularity DESC;

1535	Death Note	['Mystery'; 'Police'; 'Psychological'; 'Supernatural'; 'Thriller'; 'Shounen']	Oct 4 2006 to Jun 27 2007	37	187104 3	1	52	8.6 5
1649 8	Shingeki no Kyojin	['Action'; 'Military'; 'Mystery'; 'Super Power'; 'Drama'; 'Fantasy'; 'Shounen']	Apr 7 2013 to Sep 29 2013	25	175497 9	2	111	8.4 7

1175 7	Sword Art Online	['Action'; 'Adventure'; 'Fantasy'; 'Game'; 'Romance']	Jul 8 2012 to Dec 23 2012	25	165782 3	3	177 1	7.4 9
5114	Fullmetal Alchemist: Brotherhood	['Action'; 'Military'; 'Adventure'; 'Comedy'; 'Drama'; 'Magic'; 'Fantasy'; 'Shounen']	Apr 5 2009 to Jul 4 2010	64	161508 4	4	1	9.2
3027 6	One Punch Man	['Action'; 'Sci-Fi'; 'Comedy'; 'Parody'; 'Super Power'; 'Supernatural'; 'Seinen']	Oct 5 2015 to Dec 21 2015	12	147521 9	5	50	8.6 8
2231 9	Tokyo Ghoul	['Action'; 'Mystery'; 'Horror'; 'Psychological'; 'Supernatural'; 'Drama'; 'Seinen']	Jul 4 2014 to Sep 19 2014	12	134603 6	6	674	7.9 3
9253	Steins;Gate	['Thriller'; 'Sci-Fi']	Apr 6 2011 to Sep 14 2011	24	133171 0	7	2	9.1 1
1981 5	No Game No Life	['Game'; 'Adventure'; 'Comedy'; 'Supernatural'; 'Ecchi'; 'Fantasy']	Apr 9 2014 to Jun 25 2014	12	129161 5	8	201	8.3 4
20	Naruto	['Action'; 'Adventure'; 'Comedy'; 'Super Power'; 'Martial Arts'; 'Shounen']	Oct 3 2002 to Feb 8 2007	22 0	128091 4	9	670	7.9 3
6547	Angel Beats!	['Action'; 'Comedy'; 'Drama'; 'School'; 'Supernatural']	Apr 3 2010 to Jun 26 2010	13	124728 2	1	284	8.2 5

select *
from anime_new
order by ranked ;

5114	Fullmetal Alchemist: Brotherhood	['Action'; 'Military'; 'Adventure'; 'Comedy'; 'Drama'; 'Magic'; 'Fantasy'; 'Shounen']	Apr 5 2009 to Jul 4 2010	64	161508 4	4	1	9.2
9253	Steins;Gate	['Thriller'; 'Sci-Fi']	Apr 6 2011 to Sep 14 2011	24	133171 0	7	2	9.1 1
1106 1	Hunter x Hunter (2011)	['Action'; 'Adventure'; 'Fantasy'; 'Shounen'; 'Super Power']	Oct 2 2011 to Sep 24 2014	14 8	105276 1	20	3	9.1 1
3228 1	Kimi no Na wa.	['Romance'; 'Supernatural'; 'School'; 'Drama']	Aug 26 2016	1	113987 8	15	4	9.0 9
3852 4	Shingeki no Kyojin Season 3 Part 2	['Action'; 'Drama'; 'Fantasy'; 'Military'; 'Mystery'; 'Shounen'; 'Super Power']	Apr 29 2019 to Jul 1 2019	10	446370	17 5	5	9.0 7
2897 7	Gintama°	['Action'; 'Comedy'; 'Historical'; 'Parody'; 'Samurai'; 'Sci-Fi'; 'Shounen']	Apr 8 2015 to Mar 30 2016	51	281594	35 1	6	9.0 5
9969	Gintama'	['Action'; 'Sci-Fi'; 'Comedy'; 'Historical'; 'Parody'; 'Samurai'; 'Shounen']	Apr 4 2011 to Mar 26 2012	51	278110	35 3	7	9.0 4
820	Ginga Eiyuu Densetsu	['Military'; 'Sci-Fi'; 'Space'; 'Drama']	Jan 8 1988 to Mar 17 1997	11 0	175423	62 0	8	9.0

3518 0	3-gatsu no Lion 2nd Season	['Drama'; 'Game'; 'Seinen'; 'Slice of Life']	Oct 14 2017 to Mar 31 2018	22	169544	65 7	9	9.0
2885 1	Koe no Katachi	['Drama'; 'School'; 'Shounen']	Sep 17 2016	1	842277	53	1	9.0 1

Q. Which are the anime which has the most members

select anime_id,title,members from anime_new order by members DESC limit 10;

> 1535 Death Note 1871043 16498 Shingeki no Kyojin 1754979 11757 Sword Art Online 1657823 5114 Fullmetal Alchemist: Brotherhood 1615084 30276 One Punch Man 1475219 22319 Tokyo Ghoul 1346036 9253 Steins; Gate 1331710 19815 No Game No Life 1291615 20 Naruto 1280914 6547 Angel Beats! 1247282

Q. Anime with the top score

select anime_id,title,score from anime_new order by score DESC limit 10;

```
5114 Fullmetal Alchemist: Brotherhood
                                        9.23
11061 Hunter x Hunter (2011)
                                 9.11
9253 Steins; Gate 9.11
32281 Kimi no Na wa.
                          9.09
35151 Quiz de Manabu Pinocchio no Koutsuu Ansen
                                                     9.08
38524 Shingeki no Kyojin Season 3 Part 2 9.07
28977 Gintama°
                    9.05
9969 Gintama'
                    9.04
820
      Ginga Eiyuu Densetsu
                                 9.03
35180 3-gatsu no Lion 2nd Season 9.02
```

Q. Group the anime based on their episodes and score. Take the top 10.

select episodes,count(anime_id) as total from anime_new group by episodes having total >7 order by episodes DESC;

So if you want to release an anime, keep it up to 25 episodes or less. If the anime has gained a lot of popularity then you can continue with the number of episodes.

Q. Compare the popularity and score. Top 10

select episodes,count(anime_id) as total_anime,score,title,popularity from anime_new group by episodes,score,title,popularity order by popularity;

For the above query the popular anime all have scores 7.5.

select episodes,count(anime_id) as total from anime_new group by episodes having total >7 order by episodes DESC;

37	1	8.65	Death Note 1	
25	1	8.47	Shingeki no Kyojin 2	
25	1	7.49	Sword Art Online 3	
64	1	9.23	Fullmetal Alchemist: Brotherhood	4
12	1	8.68	One Punch Man 5	
12	1	7.93	Tokyo Ghoul 6	
24	1	9.11	Steins;Gate 7	
12	1	8.34	No Game No Life 8	
220	1	7.93	Naruto 9	
13	1	8.25	Angel Beats! 10	

Q. Now finding out the number of anime with various genre

Even for this question I had to flatten the array and because of which a lot of duplicates will be there so use distinct to find out information under other columns.

select genre, count(distinct anime_id) as total_anime from anime_new group by genre order by total_anime DESC;

So there are 44 genres and the top 10 genre are

total_anime
5640
3572
2971
2753
2462
2458
2457
1915
1863
1762

Now let me write the queries needed for my presentation and visualizations,so to give recommendations

Queries I need for showing my visualizations

#Q. Top animes watched by females ,males and non binary.Based on gender

select distinct a.title,
count(distinct r.uid) as no_of_users,
round(avg(r.score),2) as avg_score
from anime_new a
left join review r on a.anime_id=r.anime_id
left join profile p on r.profile=p.profile
where gender ='Female'
group by a.title
having no_of_users >100
order by avg_score DESC
limit 10:

Top animes watched by males

select distinct a.title,count(distinct r.uid) as no_of_users,round(avg(r.score),2) as avg_score from anime_new a left join review r on a.anime_id=r.anime_id left join profile p on r.profile=p.profile where gender ='Male' group by a.title having no_of_users >100 order by avg_score DESC;

Gender not specified

select distinct a.title,
count(distinct r.uid) as no_of_users,
round(avg(r.score),2) as avg_score
from anime_new a
left join review r on a.anime_id=r.anime_id
left join profile p on r.profile=p.profile
where gender not in ('Female','Male')
group by a.title
having no_of_users >100
order by avg_score DESC;

####### Top animes based on score, story, animation, sound, characters and enjoyment

########Score

select distinct a.title,count(distinct r.uid) as no_of_users,round(avg(r.overall),1) as avg_overall from anime_new a left join review r on a.anime_id=r.anime_id group by title having avg_overall> 7 and no_of_users >100 order by avg_overall DESC;

##Story

select distinct a.title, count(distinct r.uid) as no_of_users, round(avg(r.story),1) as avg_story from anime_new a left join review r on a.anime_id=r.anime_id group by title having avg_story > 7 and no_of_users >100 order by avg_story DESC;

####Animation

select distinct a.title, count(distinct r.uid) as no_of_users, round(avg(r.animation),1) as avg_animation from anime_new a left join review r on a.anime_id=r.anime_id group by title having avg_animation > 7 and no_of_users > 100 order by avg_animation DESC;

Sound
select distinct a.title,
count(distinct r.uid) as no_of_users,
round(avg(r.sound),1) as avg_sound
from anime_new a
left join review r on a.anime_id=r.anime_id

group by title having avg_sound> 7 and no_of_users >100 order by avg_sound DESC;

#######Characters

select distinct a.title,count(distinct r.uid) as no_of_users,round(avg(r.characters),1) as avg_characters from anime_new a left join review r on a.anime_id=r.anime_id group by title having avg_characters> 7 and no_of_users >300 order by avg_characters DESC;

######Enjoyment

select distinct a.title,count(distinct r.uid) as no_of_users,round(avg(r.enjoyment),1) as avg_enjoyment from anime_new a left join review r on a.anime_id=r.anime_id group by title having avg_enjoyment> 7 and no_of_users >100 order by avg_enjoyment DESC;

######Popularity

select distinct a.title,
count(distinct r.uid)as no_of_users ,
round(avg(r.score),2) as avg_score,
a.popularity
from anime_new a
left join review r on a.anime_id=r.anime_id
group by title,a.popularity
having no_of_users >100
order by a.popularity;

######Genre

select distinct a.title, count(distinct r.uid)as no_of_users, round(avg(r.score),2) as avg_score from anime_new a
left join review r on a.anime_id=r.anime_id
where genre='Comedy'
group by title
having no_of_users >100
order by avg_score DESC;

select genre, count(distinct anime_id) as total_anime from anime_new group by genre;

select distinct title,members,popularity from anime_new order by popularity