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## Anime Directory

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## Abstract

This project aims to develop an anime database that caters to the needs of anime enthusiasts by focusing on database design, user interface development, and community engagement features. With the increasing popularity of anime, there is a growing demand for a platform that provides users with an intuitive interface to organize, search, and contribute to the anime community.

Key Features:

**Efficient Data Organization:** The database will be meticulously designed to ensure efficient storage and retrieval of anime-related information. This includes details such as titles, genres, episodes, release dates, ratings, and more.

**User-Friendly Navigation:** The user interface will be designed to be intuitive and easy to navigate. Users will be able to quickly search for anime titles, browse through different genres, and access detailed information about individual series.

**Interactive Elements:** The platform will incorporate interactive elements such as user reviews, ratings, and recommendations. This allows users to engage with the content, share their opinions, and discover new anime based on community feedback.

**Community Engagement:** The project will prioritize community engagement by providing features that encourage user participation and collaboration. This may include forums, discussion boards, and user-generated content such as fan art and fan fiction.

**Accessibility and Inclusivity:** The platform will be designed to be accessible to users of all backgrounds and abilities. This includes ensuring compatibility with screen readers, providing options for customizable fonts and colors, and adhering to web accessibility standards.

**Research and Exploration:** In addition to serving as a platform for entertainment, the database will also cater to researchers and scholars within our college community. It will provide valuable resources for studying anime culture, trends, and themes, fostering exploration and collaboration among students and faculty members.

Overall, the project aims to create a comprehensive and inclusive platform that serves the diverse needs of anime enthusiasts while promoting exploration, collaboration, and community engagement within our college community.

# Contents

<b>1</b>	<b>Introduction</b>	<b>3</b>
<b>2</b>	<b>Literature Review</b>	<b>4</b>
<b>3</b>	<b>Methodology</b>	<b>5</b>
<b>4</b>	<b>Procedures and data</b>	<b>6</b>
<b>5</b>	<b>Results</b>	<b>12</b>
<b>6</b>	<b>Discussion</b>	<b>18</b>
<b>7</b>	<b>Conclusion</b>	<b>19</b>

# 1 Introduction

In today's world, where anime has become a significant part of the entertainment industry, it can be quite overwhelming for fans to keep track of the numerous anime series and characters. However, an anime database simplifies this process by providing a one-stop solution for finding and exploring anime content.

One of the essential features of an anime database is its user-friendly design. It makes accessing anime information easy and enjoyable for users of all backgrounds, whether they are long-time fans or new to the genre.

Moreover, an anime database promotes community engagement among anime fans by incorporating features such as user reviews and discussion forums. This fosters a sense of camaraderie and collaboration, allowing fans to interact with like-minded individuals and share their thoughts and opinions.

This project also has educational value, providing students with an excellent opportunity to apply their database concepts in a fun and relevant context. By designing and implementing a database system, students can enhance their learning experiences in a practical way while exploring their passion for anime. This not only serves as a practical application but also inspires students to think creatively and innovatively, honing valuable skills they can apply in their future careers.

In conclusion, an anime database is an exciting and engaging way for fans to explore and keep track of their favorite anime series and characters. It also serves as a valuable learning tool for students, offering practical applications of database concepts while indulging their passion for anime.

## 2 Literature Review

- **Growing Anime Popularity:** The rise of anime's popularity is truly remarkable, with countless fans from different parts of the world. As more and more people indulge in the fascinating world of anime, the need for a centralized platform to organize and access all the related information becomes increasingly urgent. A platform that can centralize this information would not only make it easier for fans to keep up with their favorite anime series, but it would also help them discover new shows, movies, and other content that they may have missed otherwise..
- **Ease of Information Access:** One of the key features of an anime database is its user-friendly design, which makes accessing anime information easy and enjoyable for fans of all backgrounds. Whether you're a seasoned fan or new to the genre, an anime database offers a streamlined interface that allows you to find the content you want quickly and efficiently. Moreover, an anime database promotes community engagement among anime fans by incorporating features such as user reviews and discussion forums. This fosters a sense of community and collaboration, allowing fans to interact with like-minded individuals, share their thoughts and opinions, and discover new anime content. Apart from catering to fans, an anime database also has educational value, providing an excellent opportunity for students to apply their database concepts in a fun and relevant context. By designing and implementing a database system, students can enhance their learning experiences in a practical way while exploring their passion for anime. This not only serves as a practical application but also inspires students to think creatively and innovatively, honing valuable skills they can apply in their future careers.
- **User-Friendly Design:** The primary goal of the project is to create a user-friendly platform that makes accessing anime information easy and enjoyable for fans of all backgrounds. The inspiration behind the project is to simplify the process of finding and exploring anime content, which can be quite challenging due to the sheer number of anime series and characters. To achieve this goal, the project aims to offer a streamlined interface that is easy to navigate, search, and browse. The platform will be designed to cater to the needs of both seasoned anime fans and those who are new to the genre, offering an intuitive and user-friendly experience for all. Apart from offering a user-friendly interface, the project also aims to provide accurate and up-to-date information on anime series and characters, including details on the plot, characters, episodes, and more. This information will be presented in a clear and concise manner, making it easy for fans to find what they're looking for quickly and efficiently.
- **Community Engagement:**By incorporating features like user reviews and discussion forums, the project encourages community engagement among anime fans, fostering a sense of camaraderie and collaboration.
- **Educational Value:**This exciting project provides an excellent opportunity for students to apply their database concepts in a fun and relevant context, thus enhancing their learning experiences in a practical way. Not only does it serve as a practical application, but it can also inspire them to think creatively and innovatively. Through this project, students can learn how to design and implement a database system, which is a valuable skill that they can apply in their future careers. More than that, however, the project offers an exciting and engaging way for students to explore their passion for anime while simultaneously gaining practical and valuable skills.

### 3 Methodology

- **Data Collection:** Begin by gathering information about anime series and characters from reliable sources like anime websites and official databases.
- **Database Development:**2. Design the database structure, including tables and relationships, based on the collected data. Ensure data integrity and efficiency through normalization techniques.
- **Data Entry:**3. Input the collected data into the database systematically, minimizing errors and ensuring consistency.
- **Efficiency Optimization:**Implement indexing and query optimization techniques to improve data retrieval speed and overall system efficiency.

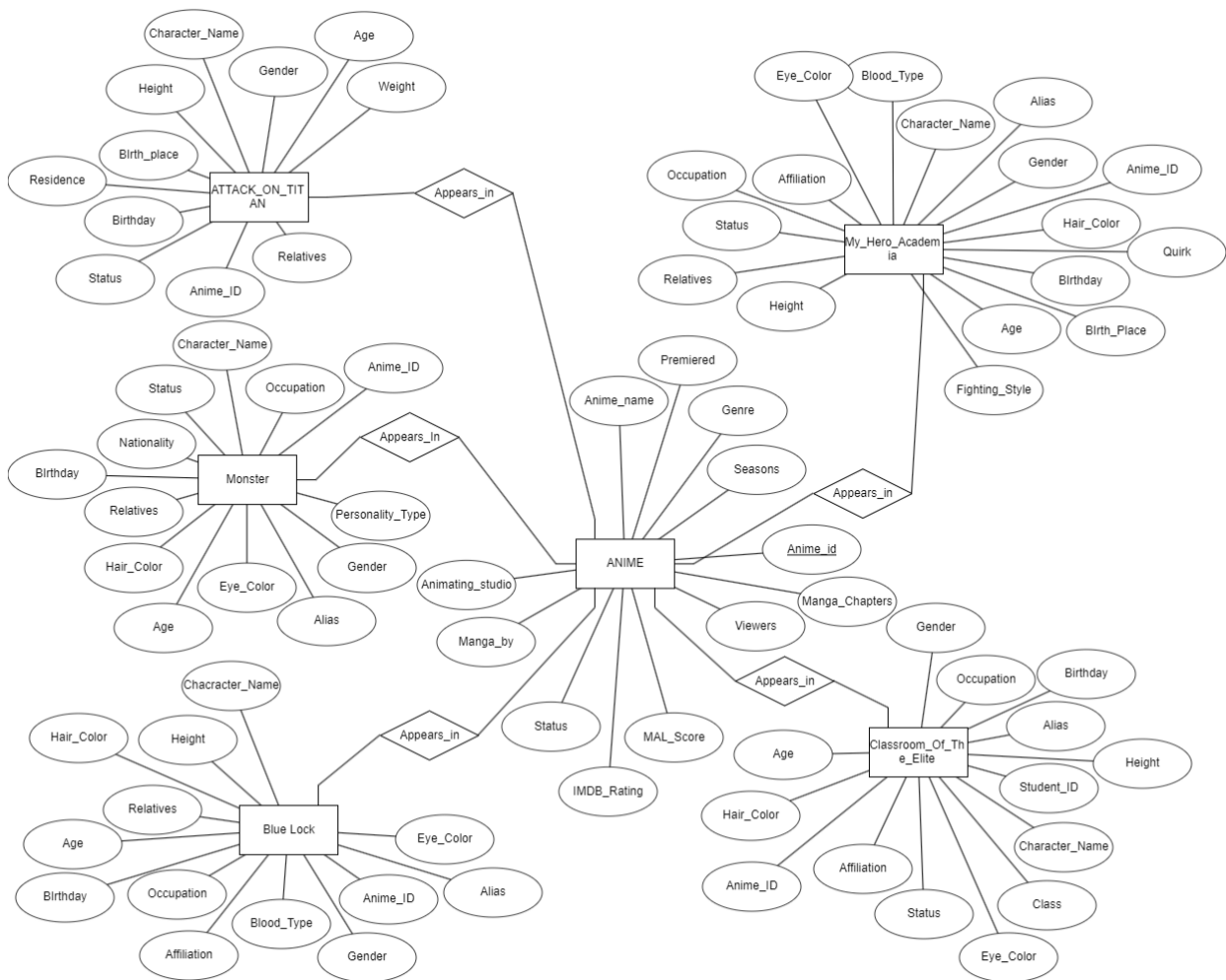


Figure 1: ER diagram

## 4 Procedures and data

We created the database in the It project database and we inserted the data using Python commands.

Then we created a few SQL queries to modify the table having the super key and modifying it to the primary key and foreign keys.

We then developed some procedures for the user to execute to get the required output.

The procedures contained the user input which was given to the procedure to execute it and get the output.

We also created a procedure to record the number of times the user used the particular table for the results by the procedure named accessed.

The Procedure code and the data collection are as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Character Name	Alias	Gender	Age	Eye Color	Hair Color	Relatives	Birthday	Class	Personality type	Status	Nationality	Occupation
2	Kenzo Tenma	Dr. Tenma	Male	41 (1999)	Brown	Black	Not Available	02-Jan-58		Philanthropic Doctor	Alive	Japanese	Neurosurgeon
3	Johan Leibert	Franz Heinau Michael Reichmann Erich Springer	Male	24 (1999)	Blue	Light Blond	Anna Leibert (Younger Twin Sister)	07-Apr-75		Nihilistic Serial Killer	Presumed Alive	Czech/German	Not Available
4	Nina Fortner	Anna Leibert	Female	24 (1999)	Blue	Blond	Johan Leibert (Older Twin Brother)	07-Apr-75		Amnisiac Anti-Nihilist	Alive	Czech/German	College Student
5	Heinrich Lunge	Inspector Lunge The Relentless Searcher	Male		Black	Black	Not Available	Not Available		Obsessed Official	Alive	German	Police Inspector of BKA
6	Wolfgang Grimmer	Mr. Neumeyer	Male	44	Greyish Blue	Blond	Not Available	1954s		Mentaly-III Gental Giant	Deceased	German	Spy Freelance Journalist
7	Franz Bonaparta	Klaus Poppe	Male	60 (1998)	Greyish Blue	Blond	Turner Poppe (Father)	1930s		Delusional Scientist	Deceased	Czech Born German	Member of Czech secret Police Psychologist Psychiatrist Neurosurgeon Author Bartender
8	Deiter	None	Male	Not Available	Blue	Red	Hartmann (Foster Father)	Not Available		Optimistic kid	Alive	German	Unknown
9	Eve Heinemann	None	Female	Not Available	Light Purple	Blond	Udo Weinemann (Father)	Not Available		Redeemed Egoist	Alive	German	Interior Designer
10	Hans Georg Schuwald	The Vampire of Bayern	Male	Not Available	Not Available	Not Available	Karl Neumann (Son)	Not Available		Old and Blind Person	Alive	German	Businessman
11	Richard braun	None	Male	Not Available	Dark Blue	Black	Rosemary Braun (Daughter)	25-Jan-51		Truth Seeking Official	Deceased	German	Police Detective Private investigator

Figure 2: Anime data

	A	B	C	D	E	F	G	H	I	J
1	Character Name	gender	Age	Height	Weight	Relatives	Birthday	Birthplace	Residence	Status
2	Eren Yeager	Male	19	183 cm 15 m (Attack Titan Form)	82 Kgs	Grisha Yeager(Father) Carla Yeager(Mother) Zeke Yeager(Half Brother)	30th March	Shiganshina District	Wall Rose	Deceased
3	Mikasa Ackerman	Female	19	176 cm 169 cm	70 Kgs	Ackerman(Father) Levi Ackerman(Relative)	10-Feb	Shiganshina District	Wall Rose	Alive
4	Armin Arleit	Male	19	60 m (Colossal Titan)	56 Kgs	Arlert Family	03-Nov	Shiganshina District	Wall Rose	Alive
5	Levi Ackerman	Male	30	160 cm	65 Kgs	Ackerman Clan	25-Dec	Underground	Marley	Alive
6	Historia Reiss	Female	19	139.7 cm	42 Kgs	Fritz Family	25-Jan	Wall Sina	Wall Rose	Alive
7	Zeke Yeager	Male	29	17 m (Beast Titan)	92 Kgs	Jaeger Family	01-Aug	Liberio	Marley	Deceased
8	Erwin Smith	Male	Not Available	188 cm	92 Kgs	Smith Family	14-Oct	Not Available	Wall Rose	Deceased
9	Reiner Brown	Male	21	188 cm 192 cm	83 kgs	Braun Family	01-Aug	Liberio	Currently Unknown	Alive
10	Bertholdt Hoover	Male	Not Available	60 m (Colossal Titan) 153 cm	81 Kgs	Unnamed Father (Deceased)	30-Dec	Liberio	Not Available	Deceased
11	Annie Leonhart	Female	20	14 m (Female Titan)	54 Kgs	Leonhart Family	22-Mar	Not Available	Wall Sina	Alive

Figure 3: attack on titans data

	A	B	C	D	E	F	G	H	I	J	K	L
1	Character Name	Alias	Gender	Age	Blood Type	Eye Color	Hair Color	Height	Relatives	Birthday	Occupation	Affiliation
2	Jinpachi Ego	Four Eyes Jerk	Male	30	AB	Black	Black	189 cm	Not Available	31-Mar	Coach Trainer General Director/Manager of	Japan football Union
3	Anri Teiri	Errand Girl	Female	22	B	Brown	Brown	157 cm	Not Available	17-Aug	JFU Member	Japan football Union
4	Yoichi Isagi	Heart of Blue Lock Egoist	Male	17	B	Blue	Dark Blue	176 cm	Isoei Isagi(Mother) Issei Isagi(Father)	01-Apr	Student	Blue Lock
5	Meguru Bachira	Bowl Cut Bob Cut Monster Bee Boy	Male	17	AB	Yellow	Brown	176 cm	Yu Bachira(Mother)	08-Aug	Student	Blue Lock
6	Seishiro Nagi	Genius My Treasure White Head	Male	17	O	Grey	White	190 cm	Unnamed Mother Unnamed Father	06-May	Student	Blue Lock
7	Rin Itoshi	Rin Rin	Male	16	A	Bright Teal	Dark Green	186 cm	Sae Itoshi(Older Brother)	09-Sep	Student	Blue Lock
8	Sae Itoshi	The Prodigy	Male	18	A	Teal	Magenta	180 cm	Rin Itoshi(Younger Brother)	10-Oct	Football Player	Japanese football Team
9	Noel Noa	Boy Genius Best Striker In The World	Male	31	B	Yellow	White	175 cm	Not Available	02-Apr	Pro Football Player	Blue Lock
10	Hyoma Chigiri	Princess Red Head Chigirin	Male	16	A	Pink	Reddish Pink	177 cm	Chigiri Family	23-Dec	Student	Blue Lock
11	Gin Gagamaru	Wild Beast	Male	17	O	Black	Black and Silver	191 cm	Not Available	02-Jan	Student	Blue Lock

Figure 4: blue lock data

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Character Name	Alias	Gender	Age	Eye Color	Hair Color	Height	Birthday	Class	Student ID	Status	Affiliation	Occupation
2	Kiyotaka Ayanokoji	Argos-4 The Mastermind	Male	17	Brown	Brown	176 cm	20-Oct 1-D (First year)		S01T004651	Active	Advanced Nurturing High School	Student
3	Arisu Sakayanagi	Little Girl	Female	16	Violet	Lilac	150 cm	12-Mar 1-A (First year)		S01T004737	Active	Advanced Nurturing High School	Class Representative
4	Suzune Horikita	Muddy Kita	Female	16	Orange with Blue Gradient	Black with Cyan Gradient	156 cm	15-Feb 1-D (First year)		S01T004752	Active	Advanced Nurturing High School	Student
5	Kei Karuizawa	Not Available	Female	16	Violet Gradient	Gold Gradient	154 cm	08-Mar 1-D (First year)		S01T004718	Active	Advanced Nurturing High School	Class Representative
6	Kikyo Kushida	Not Available	Female	16	Crimson Gradient	Beige	155 cm	23-Jan 1-D (First year)		S01T004721	Active	Advanced Nurturing High School	Student
7	Honami Ichinose	Class Rep Ichinose	Female	17	Steel Blue-Power Blue Gradient	Apricot Peach Gradient	159 cm	20-Jul 1-B (First year)		S01T004620	Active	Advanced Nurturing High School	Student
8	Ichika Amasawa	Not Available	Female	16	Yellow-Scarlett Gradient	Magenta	155 cm	17-Jun 1-A (Second year)		S01T004798	Active	Advanced Nurturing High School	Class Representative
9	Chairman Sakayanagi	Chairman	Male	40	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Active	Advanced Nurturing High School	Chairman
10	Sae Chabasira	Sae chan Sensei	Female	29	Brown	Brown	160 cm	20-May	Not Available	Not Available	Active	Advanced Nurturing High School	Teacher
11	Professor Ayanokoji	Sensei	Male	45	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Active	White Room	Homeroom Teacher

Figure 5: classroom of the elite data

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Character Name	Alias	gender	Age	Blood Type	Eye Color	Hair Color	Height	Quirk	Relatives	Birthday	Birthplace	Occupation	Status	Affiliation	Fighting Style
2	Izuku Midoriya	Deku	Male	16	O	Green	Green	166 cm	One For All	Inko Midoriya(Mother) Hasashi Midoriya(Father)	15-Jul	Near Shizuoka Prefecture	Student	Alive	U.A. High School	Melee Combat
3	Katsuki Bakugo	Kacchan	Male	17	A	Red	Ash Blond	172 cm	Explosion Decay, All for One, Various Stolen Quirks	Mitsuki Bakugo(Mother) Masaru Bakugo(Father)	20-Apr	Near Shizuoka Prefecture	Student	Alive	U.A. High School	Long Range Combat
4	Tenko Shimura	Tomura Shigaraki	Male	21	Not Available	Red	White (Current)	175.26 cm	Stolen Quirks	Kotaro Shimura(Father) Naio Shimura(Mother) Hana Shimura(Older Sister) Unnamed Mother Yoichi Shigaraki(Younger Twin Brother)	04-Apr	Not Available	Villain	Alive	League Of Villains Paranormal Liberation Front	Close and long range combat
5	All for One	Master	Male	100+	Varies	Red	White	225 cm	All for One Various Stolen Quirks	Tomura Shigaraki(Adopted son)	Not Available	Not Available	Villain	Deceased	League Of Villains Paranormal Liberation Front	Close and long range combat
6	Shoto Todoroki	Shoto	Male	16	O	Dark Grey(Right Side) Turquoise(Left Side)	White(Right Side) Crimson(Left Side)	176 cm	Half-Cold Half-Hot	Rei Todoroki(Mother) Enji Todoroki(Father)	11-Jan	Tokyo	Student	Alive	U.A. High School	Long Range Combat
7	Yagi Toshinori	All Might	Male	55+	A	Light Blue	Blond	220 cm	One for All	Unnamed Parents	10-Jun	Tokyo	Pro Hero Teacher	Alive	U.A. High School	Melee Combat
8	Shota Aizawa	Eraser Head	Male	31	B	Black	Black	183 cm	Erasure	Rei Todoroki(Mother) Enji Todoroki(Father)	08-Nov	Tokyo	Teacher	Alive	U.A. High School	Long Range Combat
9	Dabi	Dabi	Male	24		Turquoise	White	176 cm	Blue Flame	Unnamed parents	18-Jan	Tokyo	Villain	Alive	Paranormal Liberation Front	Melee
10	Ochaco Uraraka	Urvavity	Female	16	B	Auburn	Auburn	156 cm	Zero Gravity	Rei Todoroki(Wife) Toya Todoroki(Eldest Son) Shoto Todoroki(Youngest Son)	27-Dec	Mie Prefecture	Student	Alive	U.A. High School	Support Combat
11	Enji Todoroki	Endeavor	Male	46	AB	Turquoise	Crimson	195 cm	Hell Flame		08-Aug	Near Shizuoka Prefecture	Pro Hero	Alive	Endeavor Agency	Close to Long Range Combat

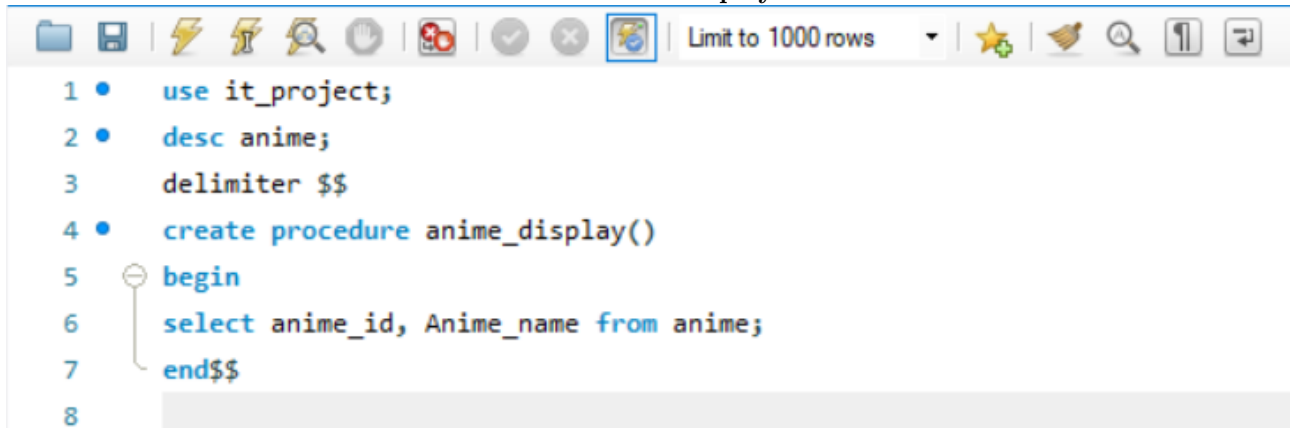
Figure 6: my hero academia data

	A	B	C	D	E	F	G	H	I	J
1	Anime Name	Premiered	Genre	Manga By	Animating Studio	Status	IMDB Rating	Mal Score	Manga Chapters	Seasons
2	Attack On Titan(Shingeki No Kyojin)	Spring 2013	Action, Drama, fantasy	Hajime Isayama	WIT Studio And MAPPA	Finished	9.1	9	139	4
3	My Hero Academia	Spring 2016	Action, Comedy, parody	Horikoshi, Kouhei	Bones Studio	Ongoing	8.3	7.87	415	6
4	Blue Lock	Fall 2022	Action, Drama, sports	Muneyuki Kaneshiro and illustrated by Yusuke Nomura	Eight Bit	Ongoing	8.3	8.28	253	1
5	Classroom Of The Elite	Summer 2017	Comedy, Thriller, Drama, School	Ichino Yuyu (Art), Kinugasa Souga	Lerche Studio	Ongoing	7.7	7.86	73	3
6	Monster	2004	Drama, Mystery, Suspense	Urasawa Naoki	Madhouse	Finished	8.7	8.88	162	1

Figure 7: monster data



#### Anime data display:



```
1 • use it_project;
2 • desc anime;
3   delimiter $$
4 • create procedure anime_display()
5   begin
6     select anime_id, Anime_name from anime;
7   end$$
8
```

Figure 8: Anime table

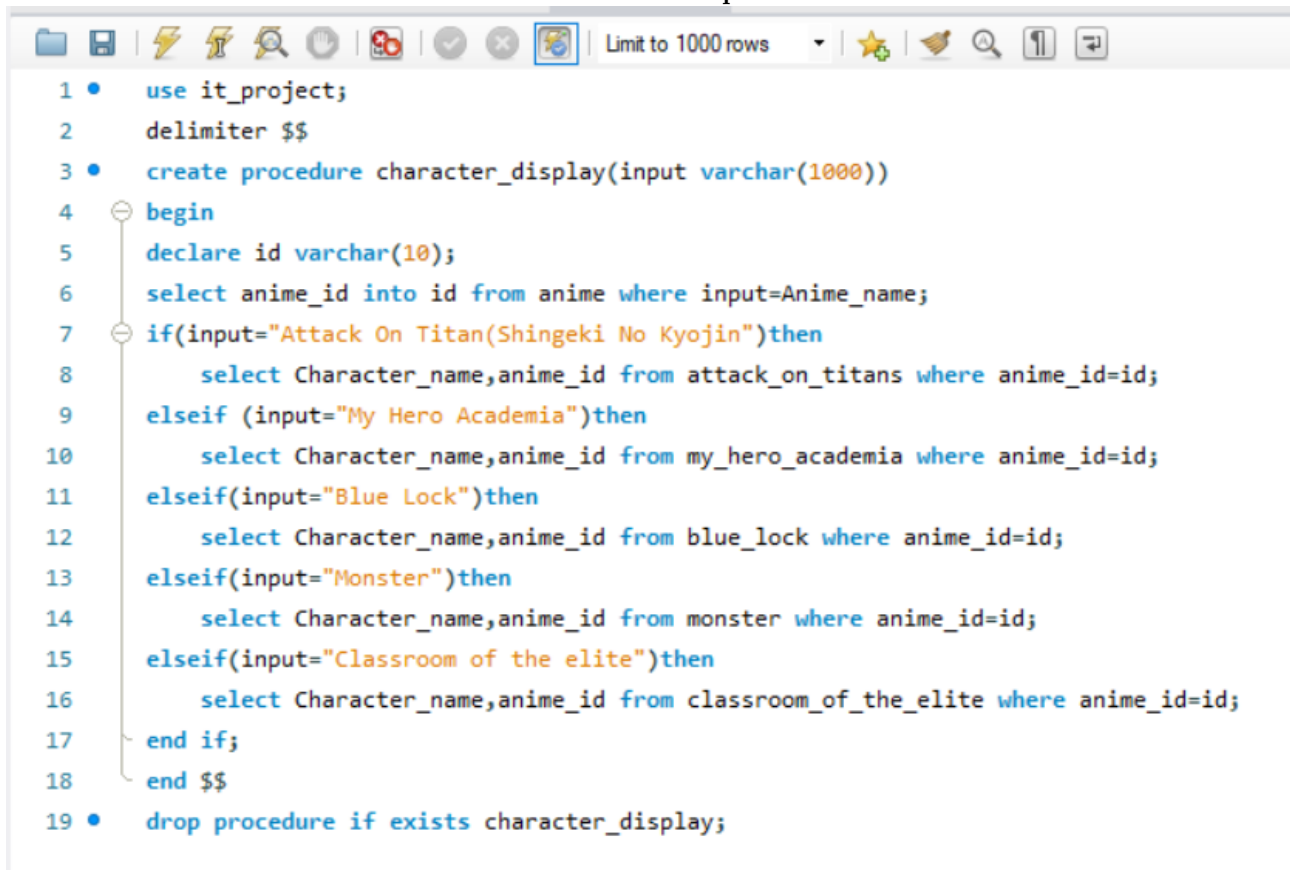
#### Display the details of the particular anime:



```
1 • use it_project;
2   delimiter $$
3 • create procedure display(named varchar(1000))
4   begin
5     select * from anime where Anime_name=named;
6     update anime set viewers=viewers+1 where Anime_name=named;
7   end$$
```

Figure 9: Different Anime table

### Characters and anime\_id of particular anime:



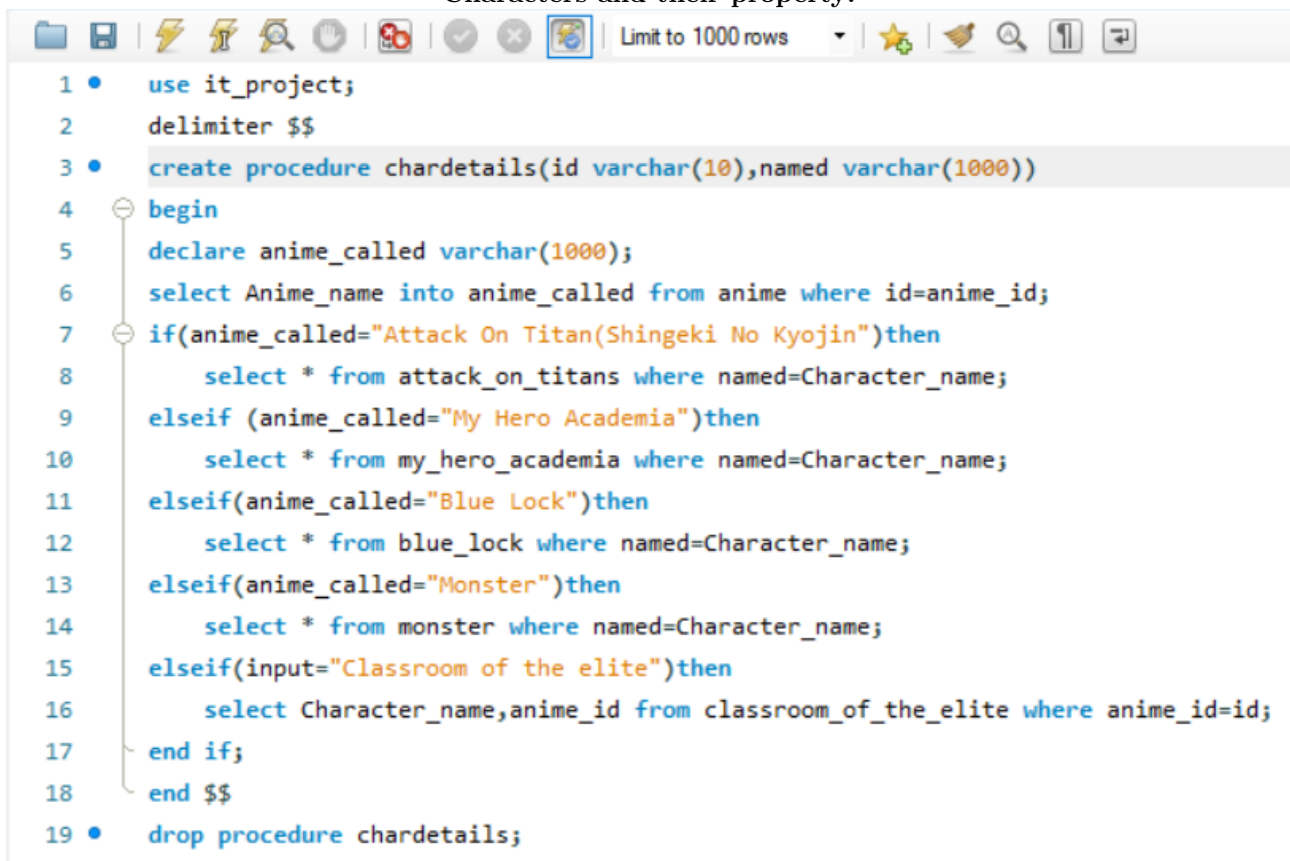
```

1 • use it_project;
2   delimiter $$
3 • create procedure character_display(input varchar(1000))
4   begin
5     declare id varchar(10);
6     select anime_id into id from anime where input=Anime_name;
7     if(input="Attack On Titan(Shingeki No Kyojin)")then
8       select Character_name,anime_id from attack_on_titans where anime_id=id;
9     elseif (input="My Hero Academia")then
10      select Character_name,anime_id from my_hero_academia where anime_id=id;
11    elseif(input="Blue Lock")then
12      select Character_name,anime_id from blue_lock where anime_id=id;
13    elseif(input="Monster")then
14      select Character_name,anime_id from monster where anime_id=id;
15    elseif(input="Classroom of the elite")then
16      select Character_name,anime_id from classroom_of_the_elite where anime_id=id;
17    end if;
18  end $$
19 • drop procedure if exists character_display;

```

Figure 10: Anime character tables

### Characters and their property:



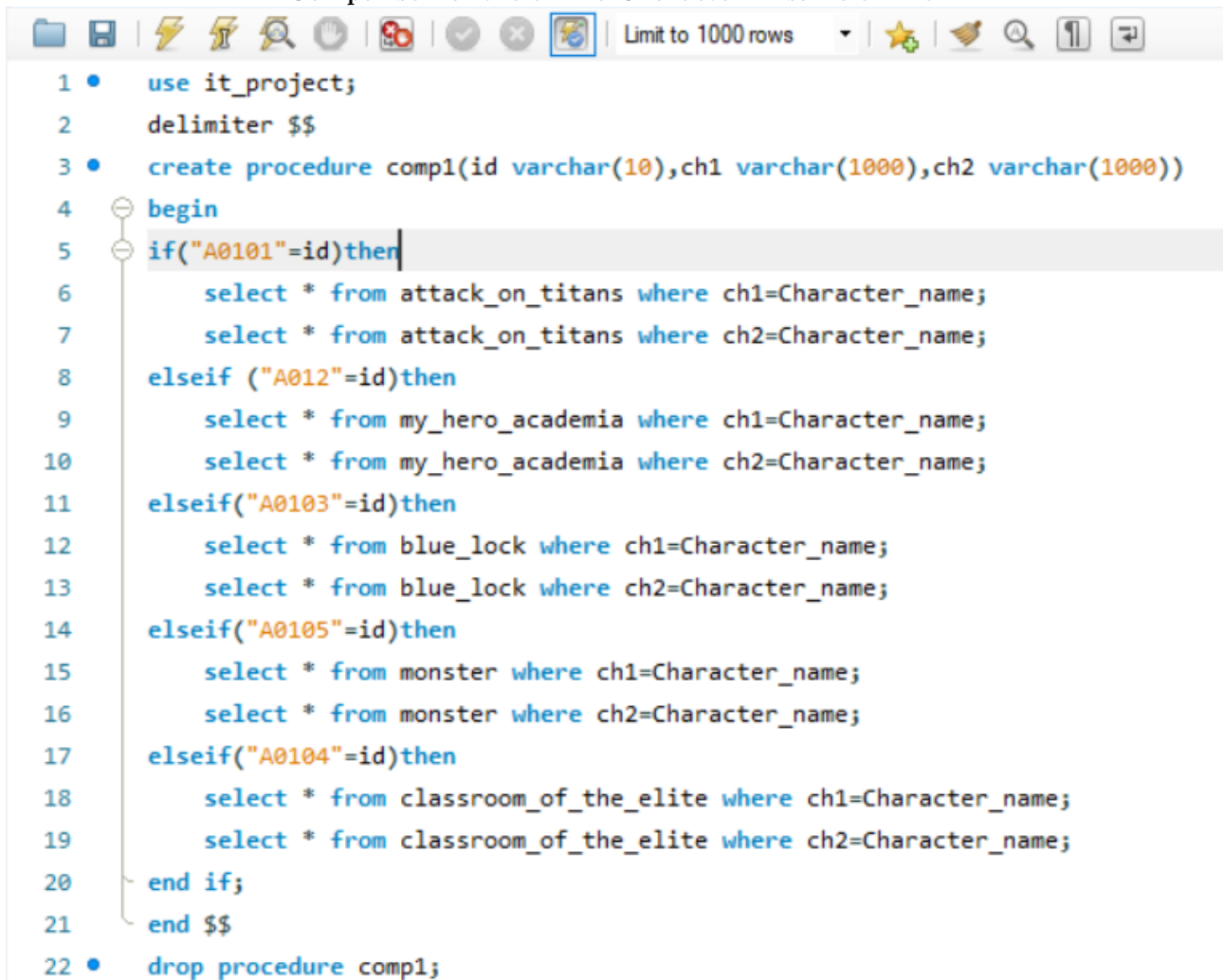
```

1 • use it_project;
2   delimiter $$
3 • create procedure chardetails(id varchar(10),named varchar(1000))
4   begin
5     declare anime_called varchar(1000);
6     select Anime_name into anime_called from anime where id=anime_id;
7     if(anime_called="Attack On Titan(Shingeki No Kyojin)")then
8       select * from attack_on_titans where named=Character_name;
9     elseif (anime_called="My Hero Academia")then
10      select * from my_hero_academia where named=Character_name;
11    elseif(anime_called="Blue Lock")then
12      select * from blue_lock where named=Character_name;
13    elseif(anime_called="Monster")then
14      select * from monster where named=Character_name;
15    elseif(input="Classroom of the elite")then
16      select Character_name,anime_id from classroom_of_the_elite where anime_id=id;
17    end if;
18  end $$
19 • drop procedure chardetails;

```

Figure 11: Anime character tables

Comparison of the anime Character in same anime:



```
1 • use it_project;
2   delimiter $$
3 • create procedure comp1(id varchar(10),ch1 varchar(1000),ch2 varchar(1000))
4   begin
5   if("A0101"=id)then
6       select * from attack_on_titans where ch1=Character_name;
7       select * from attack_on_titans where ch2=Character_name;
8   elseif ("A0102"=id)then
9       select * from my_hero_academia where ch1=Character_name;
10      select * from my_hero_academia where ch2=Character_name;
11  elseif("A0103"=id)then
12      select * from blue_lock where ch1=Character_name;
13      select * from blue_lock where ch2=Character_name;
14  elseif("A0105"=id)then
15      select * from monster where ch1=Character_name;
16      select * from monster where ch2=Character_name;
17  elseif("A0104"=id)then
18      select * from classroom_of_the_elite where ch1=Character_name;
19      select * from classroom_of_the_elite where ch2=Character_name;
20  end if;
21  end $$
22 • drop procedure comp1;
```

Figure 12: Different Anime tables

Details of ratings of anime:



```
1 • use it_project;
2   delimiter $$
3 • create procedure ratings(id varchar(10))
4   begin
5       select Manga_By,Animating_studio,IMDB_Rating,Mal_Score from anime where id=anime_id;
6       update anime set viewers=view+1 where anime_id=id;
7   end $$
8 • drop procedure ratings;
```

Figure 13: Ratings

### Comparison between Characters of different Anime:

```

1  delimiter $$
2  • create procedure comp2(id varchar(10),ch1 varchar(1000),id2 varchar(10),ch2 varchar(1000))
3  begin
4  if("A0101"=id)then
5      select * from attack_on_titans where ch1=Character_name;
6  elseif ("A012"=id)then
7      select * from my_hero_academia where ch1=Character_name;
8  elseif("A0103"=id)then
9      select * from blue_lock where ch1=Character_name;
10 elseif("A0105"=id)then
11     select * from monster where ch1=Character_name;
12 elseif("A0104"=id)then
13     select * from classroom_of_the_elite where ch1=Character_name;
14 end if;
15 if("A0101"=id2)then
16     select * from attack_on_titans where ch2=Character_name;
17 elseif ("A012"=id2)then
18     select * from my_hero_academia where ch2=Character_name;
19 elseif("A0103"=id2)then
20     select * from blue_lock where ch2=Character_name;
21 elseif("A0105"=id2)then
22     select * from monster where ch2=Character_name;
23 elseif("A0104"=id2)then
24     select * from classroom_of_the_elite where ch2=Character_name;
25 end if;
26 end $$
27 • drop procedure comp2;

```

Figure 14: Different Anime tables

### Display of number of Seasons and Episodes etc:

```

1 • use it_project;
2  delimiter $$
3 • create procedure details(id varchar(10))
4  begin
5      select Anime_name,Manga_Chapters,Seasons,viewers from anime where anime_id=id;
6      update anime set viewers=viewers+1 where anime_id=id;
7  end $$

```

Figure 15: Anime data

## 5 Results

Here are a few pictures of the execution of procedures and the description of the tables created:

```
mysql> desc anime;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Anime_name     | varchar(1000) | YES  |     | NULL    |       |
| Premiered      | varchar(1000) | YES  |     | NULL    |       |
| Genere         | varchar(1000) | YES  |     | NULL    |       |
| Manga_By       | varchar(10000) | YES  |     | NULL    |       |
| Animating_studio | varchar(1000) | YES  |     | NULL    |       |
| status         | varchar(100)  | YES  |     | NULL    |       |
| IMDB_Rating    | varchar(10)   | YES  |     | NULL    |       |
| Mal_Score      | varchar(10)   | YES  |     | NULL    |       |
| Manga_Chapters | varchar(100)  | YES  |     | NULL    |       |
| Seasons        | varchar(100)  | YES  |     | NULL    |       |
| anime_id       | varchar(5)    | YES  |     | NULL    |       |
| viewers        | int           | YES  |     | 0       |       |
+-----+-----+-----+-----+-----+-----+
12 rows in set (0.01 sec)
```

Figure 16: Anime table

```
mysql> desc attack_on_titans;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| character_name | varchar(1000) | YES  |     | NULL    |       |
| gender         | varchar(100)  | YES  |     | NULL    |       |
| age            | varchar(25)   | YES  |     | NULL    |       |
| height         | varchar(50)   | YES  |     | NULL    |       |
| weight         | varchar(50)   | YES  |     | NULL    |       |
| relatives      | varchar(1000) | YES  |     | NULL    |       |
| birthday       | varchar(100)  | YES  |     | NULL    |       |
| residence      | varchar(100)  | YES  |     | NULL    |       |
| status         | varchar(100)  | YES  |     | NULL    |       |
| birthplace     | varchar(100)  | YES  |     | NULL    |       |
| anime_id       | varchar(5)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.01 sec)
```

Figure 17: Attack on titans

```
mysql> desc blue_lock;
```

Field	Type	Null	Key	Default	Extra
character_name	varchar(1000)	YES		NULL	
alias	varchar(100)	YES		NULL	
gender	varchar(100)	YES		NULL	
blood_type	varchar(3)	YES		NULL	
eye_color	varchar(100)	YES		NULL	
hair_color	varchar(20)	YES		NULL	
height	varchar(10)	YES		NULL	
relatives	varchar(1000)	YES		NULL	
occupation	varchar(100)	YES		NULL	
affiliation	varchar(30)	YES		NULL	
age	varchar(100)	YES		NULL	
birthday	varchar(100)	YES		NULL	
anime_id	varchar(5)	YES		NULL	

```
13 rows in set (0.01 sec)
```

Figure 18: Blue lock

```
mysql> desc classroom_of_the_elite;
```

Field	Type	Null	Key	Default	Extra
Character_name	varchar(1000)	YES		NULL	
Alias	varchar(100)	YES		NULL	
gender	varchar(100)	YES		NULL	
age	varchar(5)	YES		NULL	
eye_color	varchar(50)	YES		NULL	
hair_color	varchar(50)	YES		NULL	
height	varchar(100)	YES		NULL	
birthday	varchar(200)	YES		NULL	
class	varchar(40)	YES		NULL	
student_id	varchar(40)	YES		NULL	
status	varchar(50)	YES		NULL	
affiliation	varchar(50)	YES		NULL	
occupation	varchar(50)	YES		NULL	
anime_id	varchar(5)	YES		NULL	

```
14 rows in set (0.01 sec)
```

Figure 19: classroom of the elite

```
mysql> desc my_hero_academia;
```

Field	Type	Null	Key	Default	Extra
character_name	varchar(1000)	YES		NULL	
alias	varchar(100)	YES		NULL	
gender	varchar(100)	YES		NULL	
blood_type	varchar(100)	YES		NULL	
eye_color	varchar(100)	YES		NULL	
hair_color	varchar(100)	YES		NULL	
height	varchar(10)	YES		NULL	
quirk	varchar(100)	YES		NULL	
relatives	varchar(1000)	YES		NULL	
birth_place	varchar(100)	YES		NULL	
occupation	varchar(100)	YES		NULL	
status	varchar(100)	YES		NULL	
affiliation	varchar(100)	YES		NULL	
fighting_style	varchar(100)	YES		NULL	
birthday	varchar(20)	YES		NULL	
age	varchar(20)	YES		NULL	
anime_id	varchar(5)	YES		NULL	

```
17 rows in set (0.01 sec)
```

Figure 20: My hero academia

```
mysql> desc monster;
```

Field	Type	Null	Key	Default	Extra
Character_name	varchar(100)	YES		NULL	
alias	varchar(100)	YES		NULL	
gender	varchar(10)	YES		NULL	
age	varchar(100)	YES		NULL	
eye_color	varchar(100)	YES		NULL	
hair_color	varchar(20)	YES		NULL	
relatives	varchar(100)	YES		NULL	
birthday	varchar(100)	YES		NULL	
personality_type	varchar(100)	YES		NULL	
status	varchar(100)	YES		NULL	
nationality	varchar(200)	YES		NULL	
occupation	varchar(500)	YES		NULL	
anime_id	varchar(5)	YES		NULL	

```
13 rows in set (0.01 sec)
```

Figure 21: monster

```
mysql> call anime_display();
```

anime_id	Anime_name
A0101	Attack On Titan(Shingeki No Kyojin)
A0102	My Hero Academia
A0103	Blue Lock
A0104	Classroom Of The Elite
A0105	Monster

```
5 rows in set (0.01 sec)

Query OK, 0 rows affected (0.04 sec)
```

Figure 22: Anime display

```
mysql> call display("Monster");
```

Anime_name	Premiered	Genre	Manga_By	Animating_studio	status	IMDB_Rating	Mal_S
core	Manga_Chapters	Seasons	anime_id	viewers			
Monster	2004	Drama, Mystery, Suspense	Urasawa Naoki	Madhouse	Finished	8.7	8.88
	162	1	A0105	1			

```
1 row in set (0.00 sec)

Query OK, 1 row affected (0.02 sec)
```

Figure 23: Display



```

call Character_display("Monster");
+-----+-----+
| Character_name | anime_id |
+-----+-----+
| Kenzo Tenma    | A0105    |
| Johan Leibert  | A0105    |
| Nina Fortner   | A0105    |
| Heinrich Lunge | A0105    |
| Wolfgang Grimmer | A0105    |
| Franz Bonaparta | A0105    |
| Deiter         | A0105    |
| Eva Heinemann  | A0105    |
| Hans Georg Schuwald | A0105    |
| Richard braun  | A0105    |
+-----+-----+
10 rows in set (0.04 sec)

Query OK, 0 rows affected (0.07 sec)

```

Figure 24: Character display

```

mysql> call chardetails("A0105","Wolfgang Grimmer");
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Character_name | alias | gender | age | eye_color | hair_color | relatives | birthday | personality_type | status | nationality |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Wolfgang Grimmer | Mr. Neumeyer | Male | 44 | Greyish Blue | Blond | Not Available | 1954s | Mentaly-III Gentel Giant | Deceased | German |
| Spy |
| Freelance Journalist | A0105 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

```

Figure 25: character details

```
mysql> call comp1("A0105","Eva Heinemann","Richard braun");
```

Character_name	alias	gender	age	eye_color	hair_color	relatives	birthday	personality_type	status	nationality	occupation	anime_id
Eva Heinemann	Interior Designer	Female	Not Available	Light Purple	Blond	Udo Heinemann (Father)	Not Available	Redeemed Egoist	Alive	German		A0105

1 row in set (0.00 sec)

```
mysql> call comp1("A0105","Eva Heinemann","Richard braun");
```

Character_name	alias	gender	age	eye_color	hair_color	relatives	birthday	personality_type	status	nationality	occupation	anime_id
Richard braun		Male	Not Available	Dark Blue	Black	Rosemary Braun (Daughter)	1951-01-25 00:00:00	Truth Seeking Official	Deceased	German	Police Detective Private Investigator	A0105

1 row in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

Figure 26: comp1

```
mysql> call ratings("A0105");
```

Manga_By	Animating_studio	IMDB_Rating	Mal_Score
Urasawa Naoki	Madhouse	8.7	8.88

1 row in set (0.00 sec)

Query OK, 1 row affected (0.01 sec)

Figure 27: ratings

```
mysql> call comp2("A0105","Richard braun","A0103","Noel Noa");
```

Character_name	alias	gender	age	eye_color	hair_color	relatives	birthday	personality_type	status	nationality	occupation	anime_id
Richard braun		Male	Not Available	Dark Blue	Black	Rosemary Braun (Daughter)	1951-01-25 00:00:00	Truth Seeking Official	Deceased	German	Police Detective Private Investigator	A0105

1 row in set (0.00 sec)

```
mysql> call comp2("A0105","Richard braun","A0103","Noel Noa");
```

character_name	alias	gender	blood_type	eye_color	hair_color	height	relatives	occupation	affiliation	age	birthday	anime_id
Noel Noa	Best Striker In The World	Male	B	Yellow	White	175 cm	Not Available	Pro Football Player	Blue Lock	31	2024-04-02 00:00:00	A0103

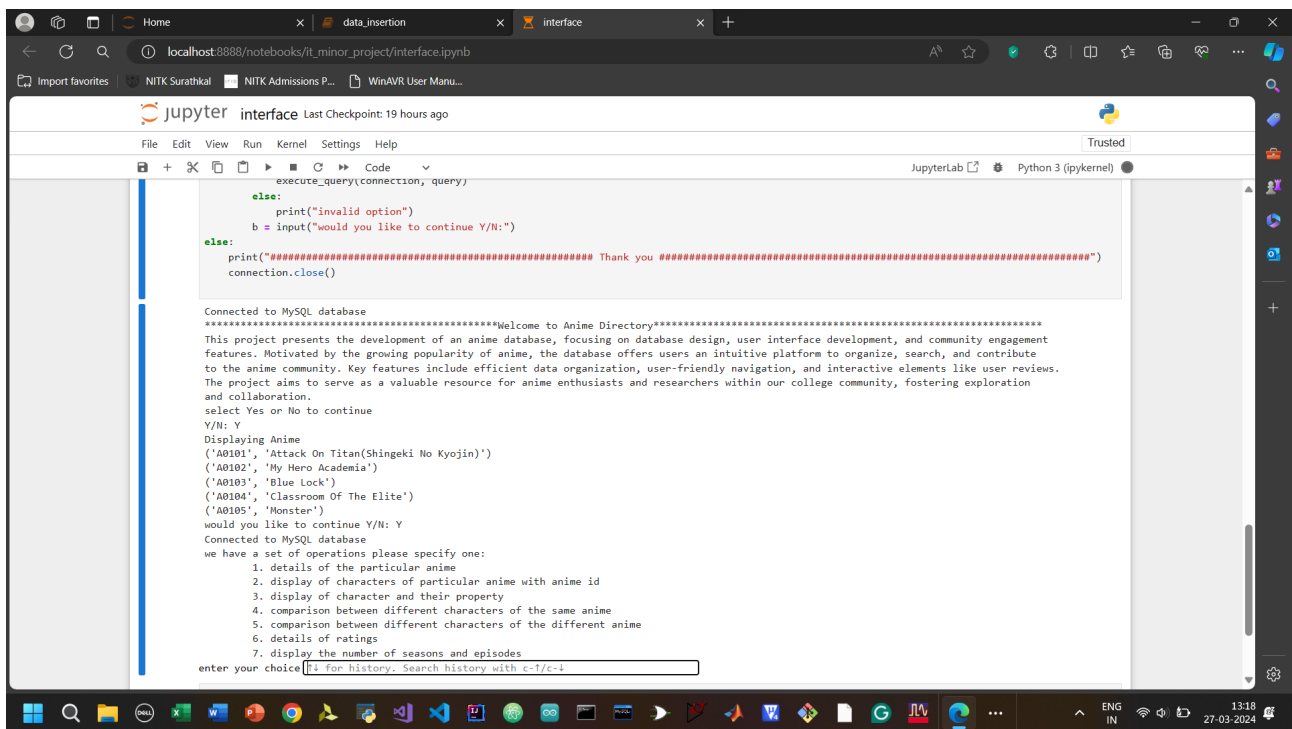
1 row in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

Figure 28: comp2

## 6 Discussion

- **Database Design:** The project focused on creating a relational database for storing anime series and character information. Following design principles like normalization ensured efficient data storage and retrieval.
- **User-Friendly Interface:** The database application was designed with users in mind, offering an intuitive interface for easy navigation and interaction.
- **Search Functionality:** Implementing search features allowed users to find anime series and characters quickly based on criteria like title, genre, and character attributes.
- **Community Engagement:** Features like user reviews and discussion forums promoted community interaction, encouraging users to share opinions and engage with each other.
- **Challenges and Future Plans:** The project encountered some challenges, such as data integration issues. Future plans involve addressing these challenges and expanding the database's functionality with features like recommendation systems. We want to integrate it with the website which will be our future plans presently we were able to make a Python user interface.



```
execute_query(connection, query)
else:
    print("invalid option")
    b = input("would you like to continue Y/N:")
else:
    print("##### Thank you #####")
    connection.close()

Connected to MySQL database
*****Welcome to Anime Directory*****
This project presents the development of an anime database, focusing on database design, user interface development, and community engagement features. Motivated by the growing popularity of anime, the database offers users an intuitive platform to organize, search, and contribute to the anime community. Key features include efficient data organization, user-friendly navigation, and interactive elements like user reviews. The project aims to serve as a valuable resource for anime enthusiasts and researchers within our college community, fostering exploration and collaboration.
select Yes or No to continue
Y/N: Y
Displaying Anime
('A0101', 'Attack On Titan(Shingeki No Kyojin)')
('A0102', 'My Hero Academia')
('A0103', 'Blue Lock')
('A0104', 'Classroom Of The Elite')
('A0105', 'Monster')
would you like to continue Y/N: Y
Connected to MySQL database
we have a set of operations please specify one:
1. details of the particular anime
2. display of characters of particular anime with anime id
3. display of character and their property
4. comparison between different characters of the same anime
5. comparison between different characters of the different anime
6. details of ratings
7. display the number of seasons and episodes
enter your choice 1 for history. Search history with c-1/c-4
```

Figure 29: Python Interface

## 7 Conclusion

In conclusion, our anime database project has successfully achieved its objectives by delivering a user-friendly platform tailored for enthusiasts and researchers within our college community.

Through meticulous database design and implementation, we've ensured the efficient organization of anime series and characters while fostering community engagement through features like user reviews and discussion forums.

Despite encountering challenges, our commitment to refinement and continuous improvement remains steadfast as we look forward to further enhancing our database.

Overall, our project serves as a testament to our dedication to innovation and collaboration, and we're excited to present our work to our professor and peers, confident in its potential to inspire future projects in the realm of database technology.

## References

- [1] <https://myanimelist.net/>
- [2] <https://mangareader.to/>
- [3] <https://www.fandom.com/>