

Course Project – Anime Database Design & Implementation

Database Systems	5
[CSIS-3222-001]	

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Table of Contents

<u>CONTENTS</u>	<u>PAGE</u>
Table of Contents	i
Database Design	1
#1 Project Intent	2
#2 Sample Forms/Reports	3
#3 Conceptual ER Model	5
#4 Preliminary E-R logical data model	7
#5 Final E-R logical data model	11
#6 Relational Schema	11
#7 Physical model	11
#9 Prototypes	17
Appendix	21
#1 Sample Data	22
#2 SQL Data Definition scripts	25
Scripts	25
Output	32
#3 SQL Data Manipulation scripts	44
Scripts	44
Output	54
#3 SQL queries	76
Scripts	76
Outputs	78
Slides	80

Database Design

#1 Project Intent

For this project, I'd like to design a database system for anime. Anime is a style of Japanese film and animation. I enjoy watch a lot of anime and thought it would be useful to create a database that contained information about all the different anime that exist. This system is a conceptualization of an Anime database that is inspired from several sites: myanmilelist.net which contains information about anime, crunchyroll.com an anime streaming site, and animecharacetdatabase.com which has a database of many characters from anime.

The goal of this system would be to merge elements from these three different websites to create an adequate database for Anime. For this database system, I'd like to make it easy to find anime based on different genre a user enjoys, and lists all the details of that anime in a list with things such as genre type, setting, characters, release date, etc. I think it would be a fun and useful project for anime fans. They could input data about an anime, and the database system can organize it well. A list of the entities can be: Anime, Manga, Genre, Studio Character, Creator, and User.

The scope of this project is to create a database that contains information of the entities previously listed. User will also be able to create accounts and have a list of anime that they enjoy. The system could possibly be self-sustainable since users will be able to input anime data if it does not already exist in the database. In this report I will design a relational database and implement it in SQL Oracle. There will be several figures of diagrams, sample data forms, and prototypes of better forms for a more reliable database system.

#2 Sample Forms

Crunchyroll Sign Up/Log in Forms



Sign Up for a Free A	ccount	Log In
Please join Crunchyroll! It's only one clic	k away!	Already have an account? Log in below.
Email Address	User Name	Email or User Name
Password	Birthday Month Day Year	Password Forgot password?
Female Male Other	Yes, keep me posted on updates related to Crunchyroll.	Log In
Create Account		Trouble logging in? Make sure browser cookies and

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These two forms are used for user purposes, either to create a new account on log into an existing account. The Sign Up forms asks for a number of things like email address, username, password, date of birth, gender, and crunchyroll updates. These will be filled out by the user and put into a database. The variables that would be in this table would be as follows:

- USERNAME PRIMARY KEY NOT NULL
- EMAIL ADDRESS VARCHAR(30) NOT NULL
- PASSWORD VARCHAR(30) NOT NULL
- BIRTHDAY DATE NOT NULL
- GENDER NOT NULL

The Log In Form asks for the username/email and password. When a user enters this data, the database will be checked for the account and log them into the website.

Animecharactersdatabase Add New Series Form



(required) English Title	
Romaji Title	(Please remove all ūōīēā)
Furigana	
Japanese Title	
Release Date	
Japanese Studio	
English Studio	
Media Type	▼
Content Rating	•
Indexing Progress	0 -
(required) Home Page	
	Post

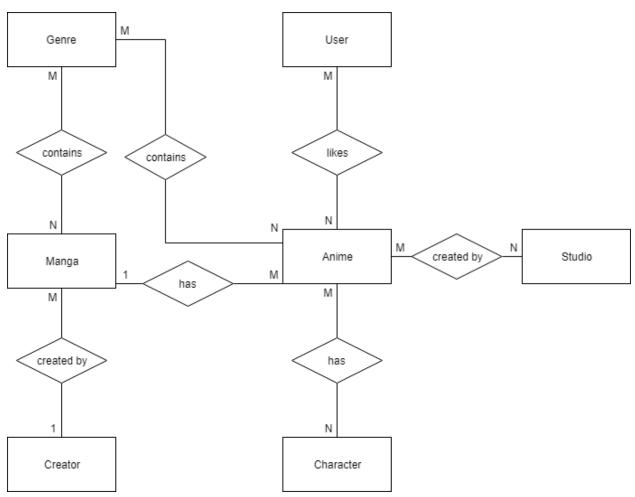
This form is used to add a new series into the already existing database of Anime. It asks for many of the attributes of the Anime entity such as its title, release date, content rating, media type, etc. The purpose of this form is to allow users to add a new series to the website and makes it self-sustainable as long as website traffic is existent.

#3 Conceptual ER model

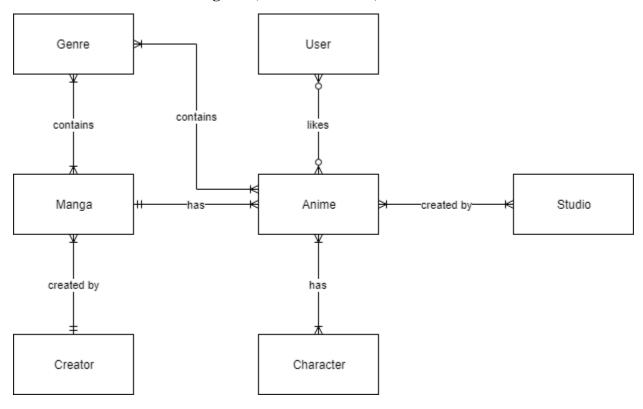
List of Entities

- Anime the name of the anime and its attributes
- Manga graphic novels that are usually adapted into anime
- Studio the company or studio that creates and releases anime adaptations
- Genre all the different genre types
- Character characters in anime
- Creator creators of anime
- User anime fan account

Chen's notation model diagram



IE Crow Foot data model diagram (without attributes)



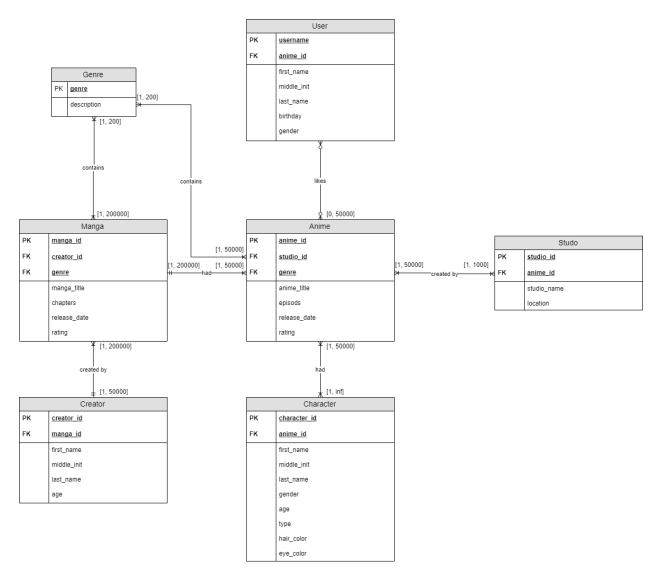
#4 Preliminary E-R logical data model

List of Entities

- Anime the name of the anime and its attributes
 - o AnimeID used to uniquely identify; a105
 - o AnimeTitle the title of the anime; Steins; Gate
 - o Episodes how many episodes there are in the anime; 34
 - o ReleaseDate when the anime was first aired on TV; April 6, 2011
 - o Rating rating from 1-10 calculated based on what all the users have rated it; 7
 - o Genres what type of genres it contains; thriller, sci-fi
 - Studio the studio that created the anime; White Fox
- Manga graphic novels that are usually adapted into anime
 - o MangaID used to uniquely identify; m207
 - o MangaTitle the title of the manga; Bleach
 - Chapters how many chapters there are in the manga; 765
 - o ReleaseDate when the first chapter was released; August 7, 2011
 - o Rating rating 1-10 from users; 8
 - o Genres type of genres it contains; adventure, supernatural
 - o Creator the creator of the manga; Tite Kubo
- Studio the company or studio that creates and releases anime adaptations
 - StudioID used to uniquely identify; s65
 - o StudioName the name of the studio; Toei Animation
 - o Anime the anime that the studio has created; One Piece, Dragon Ball Super, etc
 - o Location where the studio is based at; headquarters; Japan
- Genre all the different genre types
 - o Genre thriller, action, sci fi
 - o Description scary, suspenseful, action-packed

- Character characters in anime
 - o CharacterID used to uniquely identify; c1025
 - o FirstName first name of character; Ichigo
 - o MiddleInit middle initial of character if applicable; m, null
 - LastName last name of character; Kurosaki
 - o Gender gender of character; male, female
 - o Age how old the character is;17
 - Type human, cat, dog, fox, demon, etc
 - o HairColor color of hair; orange
 - EyeColor color of eyes; orange
- Creator creators of anime
 - CreatorID – used to uniquely identify
 - o FirstName; Tite
 - o MiddleInit; H
 - o LastName; Kubo
 - o Age; 41
 - o Manga; Bleach
- User anime fan account
 - o Username J– used to uniquely identify; animefan123
 - o FirstName John
 - o MiddleInit K
 - o LastName Fisher
 - o Birthday March 3, 2000
 - o Gender Male

Preliminary IE Crow Foot data model diagram (with attributes)



Many Anime can be created by many Studios.

Each Studio makes many Anime.

Each Manga has at least 1 creator.

Each Manga has at least 1 Anime.

Each Anime has at least 1 Anime.

Each Creator can many Manga.

Each User can like zero or many Anime.

Each Anime can be liked by zero or many Users.

Many Anime can have many Characters.

Anime contains atleast 1 Genre.

Manga contains at least 1 Genre.

#5 Final E-R logical data model

Normalization Steps:

Anime							
anime_id	studio_id	genre	anime_	title	episodes	release_date	rating
1nf							
anime_id	anime_title	episodes	release_c	date	rating		
studio_id	stu	idio_name		locatio	on		
							1
genre			(descrij	otion		
Bridge entitie	es						
anime_id				<u>genre</u>			
anime_id			5	studio_	_id		
User							
user_id	anime_id	first_name	middle	_init	last_name	birthday	gender
1nf							
user_id	first_name 1	middle_init	last_nam	ne bi	rthday	gender	
anime_id	anime_title	episodes	release_c	date	rating		
Bridge entity							1
user_id			3	<u>anime</u>	<u>_id</u>		

#6 Relational schema

#7 Physical Model

Manga

manga id	creator_id	genre	manga title	chapters	release date	rating
		0 -	B	I	· · · · · · · · — · · · · · · ·	6

1nf

manga id	creator id	manga_title	chapters	release_date	rating
III GUIT GUIT GUIT GUIT GUIT GUIT GUIT G	oreator_ra	manga_mi	onap tors	TOTOUS C_uute	1444115

genre description

Bridge entity

manga_id genre

Character

character	anime	first_	middle	last_name	gender	age	type	hair_	eye_color
<u>_id</u>	_id	name	_init					color	

1nf

ch	aracter_id	first_name	middle_init	last_name	gender	age	type	hair_color	eye_color

anime_id anime_title episodes release_date rating

Bridge entity

character_id	anime id

List of Entities

- Anime the name of the anime and its attributes
 - o anime id used to uniquely identify; a105
 - o anime title the title of the anime; Steins; Gate
 - o episodes how many episodes there are in the anime; 34
 - o release_date when the anime was first aired on TV; April 6, 2011
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 - o chapters how many chapters there are in the manga; 765
 - o release_date when the first chapter was released; August 7, 2011
 - o rating rating 1-10 from users; 8
 - o creator_id the creator of the manga; Tite Kubo
- Studio the company or studio that creates and releases anime adaptations
 - o studio_id used to uniquely identify; s65
 - o studio name the name of the studio; Toei Animation
 - o location where the studio is based at; headquarters; Japan
- Genre all the different genre types
 - o genre thriller, action, sci fi
 - o description scary, suspenseful, action-packed
- Character characters in anime
 - o character_id used to uniquely identify; c1025
 - o first_name first name of character; Ichigo
 - o middle_init middle initial of character if applicable; m, null
 - last_name last name of character; Kurosaki
 - o gender gender of character; male, female

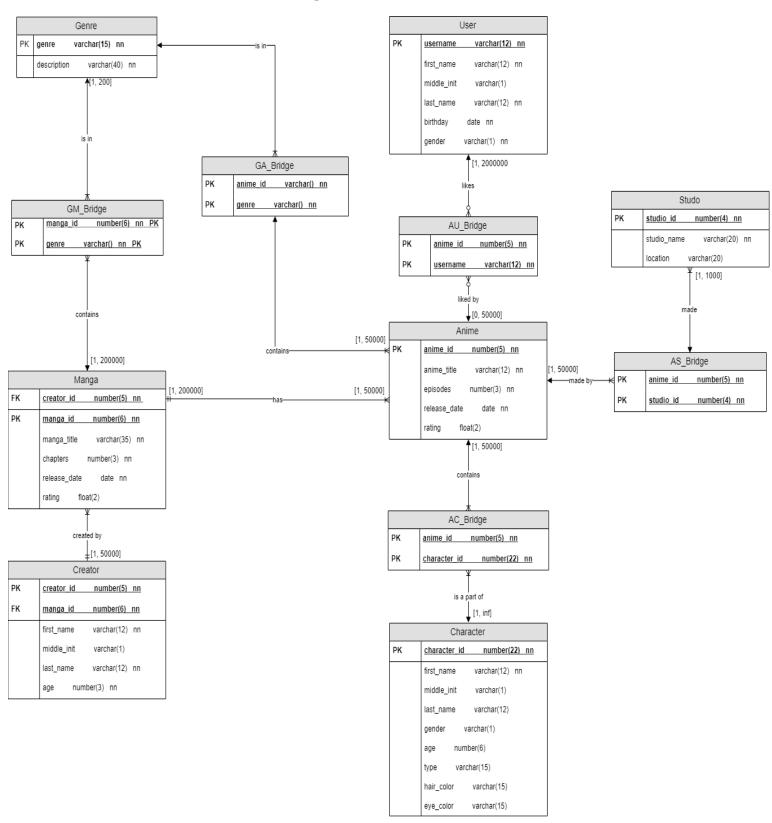
- o age how old the character is;17
- o type human, cat, dog, fox, demon, etc
- o hair_color color of hair; orange
- o eye_color color of eyes; orange
- Creator creators of anime
 - o <u>creator_id</u> used to uniquely identify
 - o nirst_name; Tite
 - o middle_init; H
 - o last_name; Kubo
 - o age; 41
 - o manga_id; Bleach
- User anime fan account
 - o <u>username</u>– used to uniquely identify; animefan123
 - o first_name John
 - o middle_init K
 - o last_name Fisher
 - o birthday March 3, 2000
 - o gender Male

Bridge Entities

- GM_Bridge
 - o manga_id
 - o genre
- GA_Bridge
 - o <u>anime_id</u>
 - o genre
- AU_Bridge
 - o anime_id

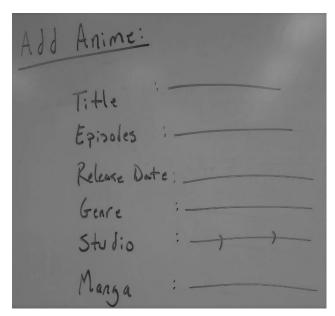
- o <u>username</u>
- AC_Bridge
 - o <u>anime_id</u>
 - o character_id
- AS_Bridge
 - o <u>anime_id</u>
 - o studio_id

Final IE Crow Foot data model diagram (with attributes)



#9 Prototypes

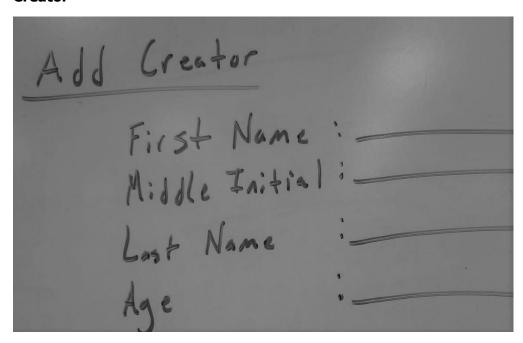
Anime



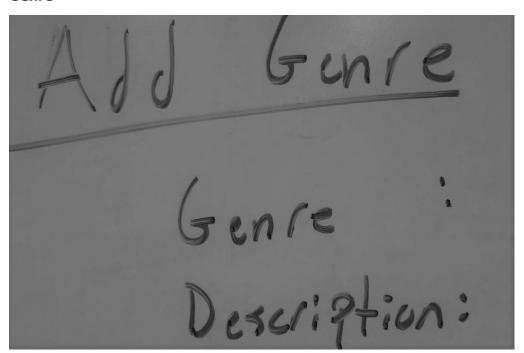
Character

Add	Character	
	First Name:	
	Mille Initial.	
	Last Name	
	Gender	
	Age:	
156	Type:	
	Hair Color:	
	Eye Colon:	
	Anime:	

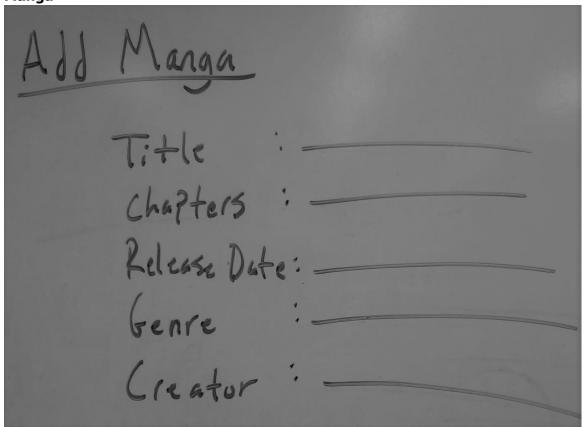
Creator



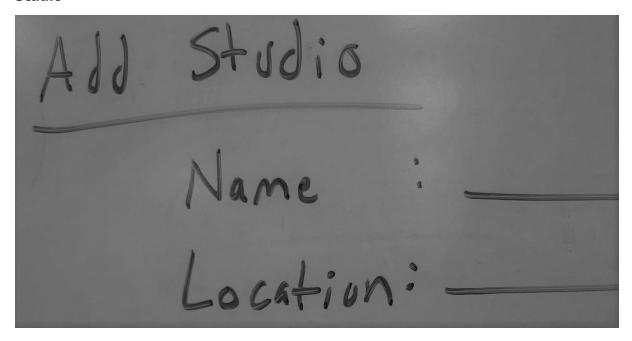
Genre



Manga



Studio



User

Create User	
Username	,
First Name	•
Middle Initial	*
Lust Name	•
Birth day	•
Gender	•

Appendix

Sample Data

Anime					
	anime_id	anime_title	episodes	release_date	rating
Instance-1	1	Steins;Gate	24	Apr 6, 2011	9.13
Instance-2	2	Bleach	366	Oct 5, 2004	7.88
Instance-3	3	One Piece	867	Oct 20, 1999	8.53
Instance-4	4	Dragonball Z	291	Apr 26, 1989	8.29
Instance-5	5	Black Clover	88	Oct 3, 2017	7.00

Manga						
	manga_id	manga_title	chapters	release_date	rating	creator_id
Instance-1	1	Steins;Gate	23	Sep 26, 2009	8.19	1
Instance-2	2	Bleach	705	Aug 7, 2001	7.71	2
Instance-3	3	One Piece	941	Jul 22, 1997	9.07	3
Instance-4	4	Dragon Ball	519	Jun 20, 2015	7.41	4
Instance-5	5	Black Clover	203	Feb 16, 2015	7.59	5

Creator						
	creator_id	first_name	middle_init	last_name	age	manga_id
Instance-	1	Yomi	J	Sarachi	35	1
Instance-	2	Tite		Kubo	41	2
Instance-	3	Oda		Eiichiro	44	3
Instance-	4	Akira		Toriyama	64	4
Instance- 5	5	Yuuki		Tabata	34	5

Studio			
	studio_id	studio_name	location
Instance-1	1	White Fox	Tokyo
Instance-2	2	Studio Pierrot	Tokyo
Instance-3	3	Toei Animation	Tokyo
Instance-4	4	Madhouse	Tokyo
Instance-5	5	TNK	Nerima

Genre		
	genre	description
Instance-1	Action	fights, speed
Instance-2	Adventure	traveling acr
Instance-3	Horror	scary
Instance-4	Slice of life	everyday life
Instance-5	Fantasy	dream-like

Character									
	character _id	first_na me	middie _init	last_nam e	gender	age	type	hair_color	eye_color
Instance-1	1	Monkey	D	Luffy	M		Pirate	Black	Black
Instance-2	2	Ichigo		Kurosaki	M		Soul Reaper	Orange	Orange
Instance-3	3	Yuno			M		Wizard	Black	Yellow
Instance-4	4	Son		Goku	M		Fighter	Black	Black
Instance-5	5	Asta			M		Human	Grey	Green

User						
	username	first_name	middle_init	last_name	birthday	gender
Instance-1	bobby1	Bobby	K	Yu	May 2, 1997	M
Instance-2	bob2	Bob		Rob	Jun 5, 2001	M
Instance-3	tanash	Leroy		Jenkins	Apr 26, 1989	M
Instance-4	coolgamer2	Jen	K	Jane	May 2, 1996	F
Instance-5	yayeet	Alexis		King	May 4, 1965	О

GM_Bridge		
	genre	manga_id
Instance-1	Action	5
Instance-2	Adventure	5
Instance-3	Horror	2
Instance-4	Slice of life	1
Instance-5	Fantasy	5

GA_Bridge		
	genre	anime_id
Instance-1	Action	5
Instance-2	Adventure	5
Instance-3	Horror	2
Instance-4	Slice of life	1
Instance-5	Fantasy	5

AU_Bridge		
	anime_id	username
Instance-1	1	bobby1
Instance-2	2	bobby1
Instance-3	3	bobby1
Instance-4	2	bob2
Instance-5	2	tanash

AC_Bridge		
	anime_id	character_id
Instance-1	1	1
Instance-2	2	1
Instance-3	2	2
Instance-4	2	3
Instance-5	3	4

AS_Bridge		
	anime_id	studio_id
Instance-1	3	3
Instance-2	4	3
Instance-3	2	2
Instance-4	5	2
Instance-5	1	1

SQL Data Definition scripts

Script

SPOOL Output-Anime.txt
--SPOOL Output.txt APPEND
SET ECHO ON

SET LINESIZE 32767 SET TRIMSPOOL ON SET TRIMOUT ON

```
drop table GM_Bridge;
drop table GA_Bridge;
drop table AU_Bridge;
drop table AC_Bridge;
drop table AS_Bridge;
drop table Manga;
drop table Creator;
drop table Studio;
drop table Genre;
drop table Character;
drop table Users;
```

Anime Table:

*/

```
create table Anime(
anime_id number(5) PRIMARY KEY,
anime_title varchar(12) not null,
episodes number(3) not null,
release_date date not null,
rating float(2)
);
/*
Creator Table:
*/
create table Creator(
creator_id number(5) PRIMARY KEY,
first_name varchar(12) not null,
middle_init varchar(1),
last_name varchar(12) not null,
age number(6) not null
);
/*
Manga Table:
*/
create table Manga(
manga_id number(5) PRIMARY KEY,
```

```
manga_title varchar(12) not null,
chapters number(3) not null,
release_date date not null,
rating float(2),
creator_id number(5) references Creator(creator_id)
);
/*
Studio Table:
*/
create table Studio(
studio_id number(4) PRIMARY KEY,
studio_name varchar(20) not null,
location varchar(20)
);
/*
Genre Table:
create table Genre(
genre varchar(15) PRIMARY KEY,
description varchar(40) not null
);
```

```
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/*
Character Table:
*/
create table Character(
character_id number(22) PRIMARY KEY,
first_name varchar(12) not null,
middle_init varchar(1),
last_name varchar(12),
gender varchar(1),
age number(6),
type varchar(15),
hair_color varchar(15),
eye_color varchar(15)
);
/*
User Table:
*/
create table Users(
username varchar(12) PRIMARY KEY,
first_name varchar(12) not null,
middle_init varchar(1),
last_name varchar(12) not null,
birthday date not null,
gender varchar(1) not null
);
```

```
/*
GM_Bridge Table:
*/
create table GM_Bridge(
genre varchar(15) references Genre(genre),
manga_id number(6) references Manga(manga_id)
);
/*
GA_Bridge Table:
*/
create table GA_Bridge(
genre varchar(15) references Genre(genre),
anime_id number(6) references Anime(anime_id)
);
/*
AU_Bridge Table:
*/
create table AU_Bridge(
anime_id number(5) references Anime(anime_id),
username varchar(12) references Users(username)
);
```

```
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/*
AC_Bridge Table:
*/
create table AC_Bridge(
anime_id number(5) references Anime(anime_id),
character_id number(22) references Character(character_id)
);
/*
AS_Bridge Table:
*/
create table AS_Bridge(
anime_id number(6) references Anime(anime_id),
studio_id number(4) references Studio(studio_id)
);
DESCRIBE Anime;
DESCRIBE Manga;
DESCRIBE Creator;
DESCRIBE Studio;
DESCRIBE Genre;
DESCRIBE Character;
DESCRIBE Users;
DESCRIBE GM_Bridge;
DESCRIBE GA_Bridge;
```

DESCRIBE AU_Bridge;

DESCRIBE AC_Bridge;

DESCRIBE AS_Bridge;

SET ECHO OFF

SPOOL OFF

Output

Output
SQL>
SQL>
SQL> SET LINESIZE 32767
SQL> SET TRIMSPOOL ON
SQL> SET TRIMOUT ON
SQL>
SQL> drop table GM_Bridge;
Table GM_BRIDGE dropped.
SQL> drop table GA_Bridge;
Table GA_BRIDGE dropped.
SQL> drop table AU_Bridge;
Table AU_BRIDGE dropped.
SQL> drop table AC_Bridge;
Table AC_BRIDGE dropped.
SQL> drop table AS_Bridge;
Table AS_BRIDGE dropped.
SQL> drop table Manga;

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Table MANGA dropped.	
SQL> drop table Creator;	
Table CREATOR dropped.	
SQL> drop table Anime;	
Table ANIME dropped.	
SQL> drop table Studio;	
Table STUDIO dropped.	
SQL> drop table Genre;	
Table GENRE dropped.	
SQL> drop table Character;	
Table CHARACTER dropped.	
SQL> drop table Users;	
Table USERS dropped.	
SQL>	

```
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SQL> /*

SQL>Anime Table:

SQL>*/

SQL>*/

SQL> create table Anime(

2 anime_id number(5) PRIMARY KEY,

3 anime_title varchar(12) not null,

4 episodes number(3) not null,

5 release_date date not null,

6 rating float(2)
```

Table ANIME created.

7);

```
SQL>/*
SQL>/*
SQL>Creator Table:
SQL>*/
SQL> */
SQL> create table Creator(
2 creator_id number(5) PRIMARY KEY,
3 first_name varchar(12) not null,
4 middle_init varchar(1),
5 last_name varchar(12) not null,
6 age number(6) not null
```

Table CREATOR created.

7);

```
SQL>
SQL>
SQL > /*
SQL>Manga Table:
SQL>*/
SQL>
SQL> create table Manga(
 2 manga_id number(5) PRIMARY KEY,
 3 manga_title varchar(12) not null,
 4 chapters number(3) not null,
 5 release_date date not null,
 6 rating float(2),
 7 creator_id number(5) references Creator(creator_id)
 8);
Table MANGA created.
SQL>
SQL > /*
SQL>Studio Table:
SQL>*/
SQL>
SQL> create table Studio(
2 studio_id number(4) PRIMARY KEY,
 3 studio_name varchar(20) not null,
4 location varchar(20)
 5);
```

Table STUDIO created.

```
SQL>
SQL>
SQL > /*
SQL>Genre Table:
SQL>*/
SQL>
SQL> create table Genre(
 2 genre varchar(15) PRIMARY KEY,
 3 description varchar(40) not null
 4);
Table GENRE created.
SQL>
SQL > /*
SQL>Character Table:
SQL>*/
SQL>
SQL> create table Character(
 2 character_id number(22) PRIMARY KEY,
 3 first_name varchar(12) not null,
 4 middle_init varchar(1),
 5 last_name varchar(12),
 6 gender varchar(1),
 7 age number(6),
```

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```
8 type varchar(15),
9 hair_color varchar(15),
10 eye_color varchar(15)
11);
Table CHARACTER created.
SQL>
SQL > /*
SQL>User Table:
SQL>*/
SQL>
SQL> create table Users(
2 username varchar(12) PRIMARY KEY,
 3 first_name varchar(12) not null,
 4 middle_init varchar(1),
 5 last_name varchar(12) not null,
 6 birthday date not null,
 7 gender varchar(1) not null
 8);
Table USERS created.
SQL>
SQL > /*
SQL>GM_Bridge Table:
SQL>*/
SQL>
```

```
SQL> create table GM_Bridge(
 2 genre varchar(15) references Genre(genre),
 3 manga_id number(6) references Manga(manga_id)
 4);
Table GM_BRIDGE created.
SQL>
SQL > /*
SQL>GA_Bridge Table:
SQL>*/
SQL>
SQL> create table GA_Bridge(
 2 genre varchar(15) references Genre(genre),
 3 manga_id number(6) references Manga(manga_id)
 4);
Table GA_BRIDGE created.
SQL>
SQL > /*
SQL>AU_Bridge Table:
SQL>*/
SQL>
SQL> create table AU_Bridge(
 2 anime_id number(5) references Anime(anime_id),
 3 username varchar(12) references Users(username)
 4);
```

SQL>

Table AU_BRIDGE created.

```
SQL>
SQL > /*
SQL>AC_Bridge Table:
SQL>*/
SQL>
SQL> create table AC_Bridge(
 2 anime_id number(5) references Anime(anime_id),
 3 character_id number(22) references Character(character_id)
 4);
Table AC_BRIDGE created.
SQL>
SQL > /*
SQL>AS_Bridge Table:
SQL>*/
SQL>
SQL> create table AS_Bridge(
 2 anime_id number(6) references Anime(anime_id),
 3 studio_id number(4) references Studio(studio_id)
 4);
Table AS_BRIDGE created.
```

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SQL>

SQL> DESCRIBE Anime;

Name Null? Type

ANIME ID NOT NULL NUMBER(5)

ANIME_TITLE NOT NULL VARCHAR2(12)

EPISODES NOT NULL NUMBER(3)

RELEASE_DATE NOT NULL DATE

RATING FLOAT(2)

SQL> DESCRIBE Manga;

Name Null? Type

MANGA_ID NOT NULL NUMBER(5)

MANGA_TITLE NOT NULL VARCHAR2(12)

CHAPTERS NOT NULL NUMBER(3)

RELEASE_DATE NOT NULL DATE

RATING FLOAT(2)

CREATOR ID NUMBER(5)

SQL> DESCRIBE Creator;

Name Null? Type

CREATOR_ID NOT NULL NUMBER(5)

FIRST_NAME NOT NULL VARCHAR2(12)

MIDDLE_INIT VARCHAR2(1)

LAST_NAME NOT NULL VARCHAR2(12)

AGE NOT NULL NUMBER(6)

SQL> DESCRIBE Studio;

Name Null? Type

STUDIO_ID NOT NULL NUMBER(4)

STUDIO_NAME NOT NULL VARCHAR2(20)

LOCATION VARCHAR2(20)

SQL> DESCRIBE Genre;

Name Null? Type

GENRE NOT NULL VARCHAR2(15)

DESCRIPTION NOT NULL VARCHAR2(40)

SQL> DESCRIBE Character;

Name Null? Type

CHARACTER_ID NOT NULL NUMBER(22)

FIRST_NAME NOT NULL VARCHAR2(12)

MIDDLE_INIT VARCHAR2(1)

LAST_NAME VARCHAR2(12)

GENDER VARCHAR2(1)

AGE NUMBER(6)

TYPE VARCHAR2(15)

HAIR_COLOR VARCHAR2(15)

EYE_COLOR VARCHAR2(15)

SQL> DESCRIBE Users;

Name Null? Type

USERNAME NOT NULL VARCHAR2(12)

FIRST_NAME NOT NULL VARCHAR2(12)

MIDDLE_INIT VARCHAR2(1)

LAST_NAME NOT NULL VARCHAR2(12)

Keith Lopez

BIRTHDAY NOT NULL DATE

GENDER NOT NULL VARCHAR2(1)

SQL> DESCRIBE GM_Bridge;

Name Null? Type

GENRE VARCHAR2(15)

MANGA_ID NUMBER(6)

SQL> DESCRIBE GA_Bridge;

Name Null? Type

GENRE VARCHAR2(15)

MANGA_ID NUMBER(6)

SQL> DESCRIBE AU_Bridge;

Name Null? Type

ANIME_ID NUMBER(5)

USERNAME VARCHAR2(12)

SQL> DESCRIBE AC_Bridge;

Name Null? Type

ANIME_ID NUMBER(5)

CHARACTER_ID NUMBER(22)

SQL> DESCRIBE AS_Bridge;

Name Null? Type

ANIME_ID NUMBER(6)

STUDIO_ID NUMBER(4)

SQL>

Keith Lopez

SQL> SET ECHO OFF

SQL Data Manipulation scripts

Script

SPOOL Output-AnimeManipulation.txt
--SPOOL Output.txt APPEND
SET ECHO ON

SET LINESIZE 32767 SET TRIMSPOOL ON

SET TRIMOUT ON

/*

Anime Test Data

*/

INSERT INTO Anime(anime_id, anime_title, episodes, release_date, rating)
VALUES(1, 'Steins;Gate', 24, date'2011-04-06', 9.13);

INSERT INTO Anime(anime_id, anime_title, episodes, release_date, rating) VALUES('2', 'Bleach', '366', date'2004-10-05', '7.88');

INSERT INTO Anime(anime_id, anime_title, episodes, release_date, rating)
VALUES('3', 'One Piece', '867', date'1999-05-20', '8.53');

INSERT INTO Anime(anime_id, anime_title, episodes, release_date, rating)
VALUES('4', 'Dragonball Z', '291', date'1989-04-26', '8.29');

INSERT INTO Anime(anime_id, anime_title, episodes, release_date, rating) VALUES('5', 'Black Clover', '88', date'2017-10-3', '7.00');

```
Keith Lopez
/*
Creator Test Data
*/
INSERT INTO Creator(creator_id, first_name, middle_init, last_name, age)
VALUES('1', 'Yomi', 'J', 'Sarachi', '35');
INSERT INTO Creator(creator id, first name, middle init, last name, age)
VALUES('2', 'Tite', ", 'Kubo', '41');
INSERT INTO Creator(creator_id, first_name, middle_init, last_name, age)
VALUES('3', 'Oda', ", 'Eiichiro', '44');
INSERT INTO Creator (creator id, first name, middle init, last name, age)
VALUES('4', 'Akira', ", 'Toriyama', '64');
INSERT INTO Creator(creator_id, first_name, middle_init, last_name, age)
VALUES('5', 'Yuuki', ", 'Tabata', '34');
/*
Manga Test Data
*/
INSERT INTO Manga(manga_id, manga_title, chapters, release_date, rating, creator_id)
VALUES('1', 'Steins; Gate', '23', date'2009-09-26', '8.19', '1');
```

INSERT INTO Manga(manga_id, manga_title, chapters, release_date, rating, creator_id) VALUES('2', 'Bleach', '705', date'2001-08-07', '7.71', '2');

INSERT INTO Manga(manga_id, manga_title, chapters, release_date, rating, creator_id)

```
Keith Lopez
```

```
VALUES('3', 'One Piece', '941', date'1997-07-22', '9.07', '3');
INSERT INTO Manga(manga_id, manga_title, chapters, release_date, rating, creator_id)
VALUES('4', 'Dragon Ball', '519', date'2015-06-20', '7.41', '4');
INSERT INTO Manga(manga_id, manga_title, chapters, release_date, rating, creator_id)
VALUES('5', 'Black Clover', '203', date'2015-02-16', '7.59', '5');
/*
Studio Test Data
*/
INSERT INTO Studio(studio_id, studio_name, location)
VALUES('1', 'White Fox', 'Tokyo');
INSERT INTO Studio(studio_id, studio_name, location)
VALUES('2', 'Studio Pierrot', 'Tokyo');
INSERT INTO Studio(studio id, studio name, location)
VALUES('3', 'Toei Animation', 'Tokyo');
INSERT INTO Studio(studio_id, studio_name, location)
VALUES('4', 'Madhouse', 'Tokyo');
INSERT INTO Studio(studio id, studio name, location)
VALUES('5', 'TNK', 'Nerima');
/*
Genre Test Data
```

Keith Lopez */ INSERT INTO Genre(genre, description) VALUES('Action', 'fights, speed...'); INSERT INTO Genre(genre, description) VALUES('Adventure', 'traveling across places...'); INSERT INTO Genre(genre, description) VALUES('Horror', 'scary...'); INSERT INTO Genre(genre, description) VALUES('Slice of life', 'everyday life...'); INSERT INTO Genre(genre, description) VALUES('Fantasy', 'dream-like world...'); /* Character Test Data */ INSERT INTO Character (character id, first name, middle init, last name, gender, age, type, hair color, eye color) VALUES('1', 'Monkey', 'D', 'Luffy', 'M', '15', 'Pirate', 'Black', 'Black'); INSERT INTO Character(character_id, first_name, middle_init, last_name, gender, age, type, hair_color, eye_color) VALUES('2', 'Ichigo', ", 'Kurosaki', 'M', '15', 'Soul Reaper', 'Orange', 'Orange');

INSERT INTO Character(character_id, first_name, middle_init, last_name, gender, age, type,

hair_color, eye_color)

```
VALUES('3', 'Yuno', ", ", 'M', ", 'Wizard', 'Black', 'Yellow');
INSERT INTO Character_id, first_name, middle_init, last_name, gender, age, type,
hair_color, eye_color)
VALUES('4', 'Son', ", 'Goku', 'M', ", 'Figter', 'Black', 'Black');
INSERT INTO Character(character_id, first_name, middle_init, last_name, gender, age, type,
hair_color, eye_color)
VALUES('5', 'Asta', ", ", 'M', ", 'Human', 'Grey', 'Green');
/*
User Test Data
*/
INSERT INTO Users(username, first_name, middle_init, last_name, birthday, gender)
VALUES('bobby1', 'Bobby', 'K', 'Yu', date'1997-05-02', 'M');
INSERT INTO Users(username, first name, middle init, last name, birthday, gender)
VALUES('bob2', 'Bob', ", 'Rob', date'2001-06-05', 'M');
INSERT INTO Users(username, first_name, middle_init, last_name, birthday, gender)
VALUES('tanash', 'Leroy', ", 'Jenkins', date'1989-04-26', 'M');
INSERT INTO Users(username, first name, middle init, last name, birthday, gender)
VALUES('coolgamer2', 'Jen', 'K', 'Jane', date'1996-05-02', 'F');
INSERT INTO Users(username, first name, middle init, last name, birthday, gender)
```

VALUES('yayeet', 'Alexis', ", 'King', date'1965-05-04', 'O');

```
/*
GM_Bridge Test Data
*/
INSERT INTO GM_Bridge(genre, manga_id)
VALUES('Action', '5');
INSERT INTO GM_Bridge(genre, manga_id)
VALUES('Adventure', '5');
INSERT INTO GM_Bridge(genre, manga_id)
VALUES('Horror', '2');
INSERT INTO GM_Bridge(genre, manga_id)
VALUES('Slice of life', '1');
INSERT INTO GM_Bridge(genre, manga_id)
VALUES('Fantasy', '1');
/*
GA_Bridge Test Data
INSERT INTO GA_Bridge(genre, anime_id)
VALUES('Action', '5');
INSERT INTO GA_Bridge(genre, anime_id)
```

VALUES('Adventure', '5');

Keith Lopez

```
INSERT INTO GA_Bridge(genre, anime_id)
VALUES('Horror', '2');
INSERT INTO GA_Bridge(genre, anime_id)
VALUES('Slice of life', '1');
INSERT INTO GA_Bridge(genre, anime_id)
VALUES('Fantasy', '5');
/*
AU_Bridge Test Data
*/
INSERT INTO AU_Bridge(anime_id, username)
VALUES('1', 'bobby1');
INSERT INTO AU_Bridge(anime_id, username)
VALUES('2', 'bobby1');
INSERT INTO AU_Bridge(anime_id, username)
VALUES('3', 'bobby1');
INSERT INTO AU_Bridge(anime_id, username)
VALUES('2', 'bob2');
INSERT INTO AU_Bridge(anime_id, username)
VALUES('2', 'tanash');
```

```
/*
AC_Bridge Test Data
INSERT INTO AC_Bridge(anime_id, character_id)
VALUES('1', '1');
INSERT INTO AC_Bridge(anime_id, character_id)
VALUES('2', '1');
INSERT INTO AC_Bridge(anime_id, character_id)
VALUES('2', '2');
INSERT INTO AC_Bridge(anime_id, character_id)
VALUES('2', '3');
INSERT INTO AC_Bridge(anime_id, character_id)
VALUES('3', '4');
/*
AS_Bridge Test Data
*/
INSERT INTO AS_Bridge(anime_id, studio_id)
VALUES('3', '3');
INSERT INTO AS_Bridge(anime_id, studio_id)
VALUES('4', '3');
```

INSERT INTO AS_Bridge(anime_id, studio_id)

Keith Lopez

```
Keith Lopez
VALUES('2', '2');
INSERT INTO AS_Bridge(anime_id, studio_id)
VALUES('5', '2');
INSERT INTO AS_Bridge(anime_id, studio_id)
VALUES('1', '1');
select * from Anime;
select * from Manga;
select * from Creator;
select * from Studio;
select * from Genre;
select * from Character;
select * from Users;
select * from GM_Bridge;
select * from GA_Bridge;
select * from AU_Bridge;
select * from AC_Bridge;
select * from AS_Bridge;
select anime_id, anime_title as Title, episodes
from Anime
order by episodes DESC;
```

drop view several;

```
Keith Lopez
```

create view several as select Anime.anime_title, Manga.manga_title, Creator.last_name from Anime, Manga, Creator where Anime.anime_id=2 AND Manga.manga_id=2 AND Creator.creator_id =2; select * from several; create or replace view several as select Anime.anime_title, Manga.manga_title, Creator.first_name, Creator.last_name from Anime, Manga, Creator where Anime.anime_id=2 AND Manga.manga_id=2 AND Creator.creator_id =2; select * from several; */ mechanism to prevent duplicate primary keys*/ INSERT INTO Character(character_id, first_name, middle_init, last_name, gender, age, type, hair_color, eye_color) VALUES('1', 'Monkey', 'D', 'Luffy', 'M', '15', 'Pirate', 'Black', 'Black');

SET ECHO OFF

SPOOL OFF

Output

```
SQL>
SQL>
SQL> SET LINESIZE 32767
SQL> SET TRIMSPOOL ON
SQL> SET TRIMOUT ON
SQL > /*
SQL>Anime Test Data
SQL>*/
SQL> INSERT INTO Anime (anime id, anime title, episodes, release date, rating)
 2 VALUES(1, 'Steins; Gate', 24, date'2011-04-06', 9.13);
1 row inserted.
SQL>
SQL> INSERT INTO Anime(anime_id, anime_title, episodes, release_date, rating)
 2 VALUES('2', 'Bleach', '366', date'2004-10-05', '7.88');
1 row inserted.
SQL>
SQL> INSERT INTO Anime(anime_id, anime_title, episodes, release_date, rating)
 2 VALUES('3', 'One Piece', '867', date'1999-05-20', '8.53');
1 row inserted.
SQL>
SQL> INSERT INTO Anime(anime_id, anime_title, episodes, release_date, rating)
```

```
2 VALUES('4', 'Dragonball Z', '291', date'1989-04-26', '8.29');
1 row inserted.
SQL>
SQL> INSERT INTO Anime(anime_id, anime_title, episodes, release_date, rating)
 2 VALUES('5', 'Black Clover', '88', date'2017-10-3', '7.00');
1 row inserted.
SQL>
SQL > /*
SQL>Creator Test Data
SQL>*/
SQL> INSERT INTO Creator(creator_id, first_name, middle_init, last_name, age)
 2 VALUES('1', 'Yomi', 'J', 'Sarachi', '35');
1 row inserted.
SQL>
SQL> INSERT INTO Creator(creator_id, first_name, middle_init, last_name, age)
 2 VALUES('2', 'Tite', ", 'Kubo', '41');
1 row inserted.
SQL>
SQL> INSERT INTO Creator(creator_id, first_name, middle_init, last_name, age)
 2 VALUES('3', 'Oda', ", 'Eiichiro', '44');
```

```
Keith Lopez
```

```
1 row inserted.
SQL>
SQL> INSERT INTO Creator(creator id, first name, middle init, last name, age)
 2 VALUES('4', 'Akira', ", 'Toriyama', '64');
1 row inserted.
SQL>
SQL> INSERT INTO Creator(creator_id, first_name, middle_init, last_name, age)
 2 VALUES('5', 'Yuuki', ", 'Tabata', '34');
1 row inserted.
SQL>
SQL > /*
SQL>Manga Test Data
SQL>*/
SQL> INSERT INTO Manga (manga id, manga title, chapters, release date, rating, creator id)
 2 VALUES('1', 'Steins; Gate', '23', date'2009-09-26', '8.19', '1');
1 row inserted.
SQL>
SQL> INSERT INTO Manga (manga id, manga title, chapters, release date, rating, creator id)
 2 VALUES('2', 'Bleach', '705', date'2001-08-07', '7.71', '2');
```

```
Keith Lopez
1 row inserted.
SQL>
SQL> INSERT INTO Manga(manga_id, manga_title, chapters, release_date, rating, creator_id)
 2 VALUES('3', 'One Piece', '941', date'1997-07-22', '9.07', '3');
1 row inserted.
SQL>
SQL> INSERT INTO Manga(manga_id, manga_title, chapters, release_date, rating, creator_id)
 2 VALUES('4', 'Dragon Ball', '519', date'2015-06-20', '7.41', '4');
1 row inserted.
SQL>
SQL> INSERT INTO Manga(manga_id, manga_title, chapters, release_date, rating, creator_id)
 2 VALUES('5', 'Black Clover', '203', date'2015-02-16', '7.59', '5');
1 row inserted.
SQL>
SQL > /*
SQL>Studio Test Data
SQL>*/
SQL> INSERT INTO Studio(studio_id, studio_name, location)
 2 VALUES('1', 'White Fox', 'Tokyo');
```

1 row inserted.

```
SQL>
SQL> INSERT INTO Studio(studio_id, studio_name, location)
 2 VALUES('2', 'Studio Pierrot', 'Tokyo');
1 row inserted.
SQL>
SQL> INSERT INTO Studio(studio_id, studio_name, location)
 2 VALUES('3', 'Toei Animation', 'Tokyo');
1 row inserted.
SQL>
SQL> INSERT INTO Studio(studio_id, studio_name, location)
 2 VALUES('4', 'Madhouse', 'Tokyo');
1 row inserted.
SQL>
SQL> INSERT INTO Studio(studio_id, studio_name, location)
 2 VALUES('5', 'TNK', 'Nerima');
1 row inserted.
SQL>
SQL > /*
SQL>Genre Test Data
```

```
SQL>*/
SQL> INSERT INTO Genre(genre, description)
 2 VALUES('Action', 'fights, speed...');
1 row inserted.
SQL>
SQL> INSERT INTO Genre(genre, description)
 2 VALUES('Adventure', 'traveling across places...');
1 row inserted.
SQL>
SQL> INSERT INTO Genre(genre, description)
 2 VALUES('Horror', 'scary...');
1 row inserted.
SQL>
SQL> INSERT INTO Genre(genre, description)
 2 VALUES('Slice of life', 'everyday life...');
1 row inserted.
SQL>
SQL> INSERT INTO Genre(genre, description)
```

2 VALUES('Fantasy', 'dream-like world...');

Keith Lopez

Keith Lopez 1 row inserted. SQL> SQL > /*SQL>Character Test Data SQL>*/ SQL> INSERT INTO Character (character id, first name, middle init, last name, gender, age, type, hair color, eye color) 2 VALUES('1', 'Monkey', 'D', 'Luffy', 'M', '15', 'Pirate', 'Black', 'Black'); 1 row inserted. SQL> SQL> INSERT INTO Character(character id, first name, middle init, last name, gender, age, type, hair_color, eye_color) 2 VALUES('2', 'Ichigo', ", 'Kurosaki', 'M', '15', 'Soul Reaper', 'Orange', 'Orange'); 1 row inserted. SQL> SQL> INSERT INTO Character(character_id, first_name, middle_init, last_name, gender, age, type, hair_color, eye_color) 2 VALUES('3', 'Yuno', ", ", 'M', ", 'Wizard', 'Black', 'Yellow'); 1 row inserted. SQL>

SQL> INSERT INTO Character(character_id, first_name, middle_init, last_name, gender, age, type, hair_color, eye_color)

2 VALUES('4', 'Son', ", 'Goku', 'M', ", 'Figter', 'Black', 'Black');

```
Keith Lopez
```

```
1 row inserted.
SQL>
SQL> INSERT INTO Character (character id, first name, middle init, last name, gender, age,
type, hair_color, eye_color)
 2 VALUES('5', 'Asta', ", ", 'M', ", 'Human', 'Grey', 'Green');
1 row inserted.
SQL>
SQL > /*
SQL>User Test Data
SQL>*/
SQL> INSERT INTO Users(username, first_name, middle_init, last_name, birthday, gender)
 2 VALUES('bobby1', 'Bobby', 'K', 'Yu', date'1997-05-02', 'M');
1 row inserted.
SQL>
SQL> INSERT INTO Users(username, first name, middle init, last name, birthday, gender)
 2 VALUES('bob2', 'Bob', ", 'Rob', date'2001-06-05', 'M');
1 row inserted.
SQL>
SQL> INSERT INTO Users(username, first name, middle init, last name, birthday, gender)
 2 VALUES('tanash', 'Leroy', ", 'Jenkins', date'1989-04-26', 'M');
```

```
Keith Lopez
1 row inserted.
SQL>
SQL> INSERT INTO Users(username, first_name, middle_init, last_name, birthday, gender)
 2 VALUES('coolgamer2', 'Jen', 'K', 'Jane', date'1996-05-02', 'F');
1 row inserted.
SQL>
SQL> INSERT INTO Users(username, first_name, middle_init, last_name, birthday, gender)
 2 VALUES('yayeet', 'Alexis', ", 'King', date'1965-05-04', 'O');
1 row inserted.
SQL>
SQL>
SQL > /*
SQL>GM_Bridge Test Data
SQL>*/
SQL> INSERT INTO GM_Bridge(genre, manga_id)
 2 VALUES('Action', '5');
1 row inserted.
SQL>
SQL> INSERT INTO GM_Bridge(genre, manga_id)
```

2 VALUES('Adventure', '5');

```
Keith Lopez
1 row inserted.
SQL>
SQL> INSERT INTO GM_Bridge(genre, manga_id)
 2 VALUES('Horror', '2');
1 row inserted.
SQL>
SQL> INSERT INTO GM_Bridge(genre, manga_id)
2 VALUES('Slice of life', '1');
1 row inserted.
SQL>
SQL> INSERT INTO GM_Bridge(genre, manga_id)
2 VALUES('Fantasy', '1');
1 row inserted.
SQL>
SQL>
SQL > /*
SQL>GA_Bridge Test Data
SQL>*/
SQL> INSERT INTO GA_Bridge(genre, anime_id)
```

2 VALUES('Action', '5');

```
Keith Lopez
1 row inserted.
SQL>
SQL> INSERT INTO GA_Bridge(genre, anime_id)
2 VALUES('Adventure', '5');
1 row inserted.
SQL>
SQL> INSERT INTO GA_Bridge(genre, anime_id)
2 VALUES('Horror', '2');
1 row inserted.
SQL>
SQL> INSERT INTO GA_Bridge(genre, anime_id)
2 VALUES('Slice of life', '1');
1 row inserted.
SQL>
SQL> INSERT INTO GA_Bridge(genre, anime_id)
2 VALUES('Fantasy', '5');
1 row inserted.
SQL>
```

SQL > /*

```
Keith Lopez
SQL>AU_Bridge Test Data
SQL>*/
SQL> INSERT INTO AU_Bridge(anime_id, username)
 2 VALUES('1', 'bobby1');
1 row inserted.
SQL>
SQL> INSERT INTO AU_Bridge(anime_id, username)
2 VALUES('2', 'bobby1');
1 row inserted.
SQL>
SQL> INSERT INTO AU_Bridge(anime_id, username)
 2 VALUES('3', 'bobby1');
1 row inserted.
SQL>
SQL> INSERT INTO AU_Bridge(anime_id, username)
 2 VALUES('2', 'bob2');
```

SQL> INSERT INTO AU_Bridge(anime_id, username)

1 row inserted.

2 VALUES('2', 'tanash');

SQL>

```
1 row inserted.
SQL>
SQL>
SQL > /*
SQL>AC_Bridge Test Data
SQL>*/
SQL> INSERT INTO AC_Bridge(anime_id, character_id)
2 VALUES('1', '1');
1 row inserted.
SQL>
SQL> INSERT INTO AC_Bridge(anime_id, character_id)
 2 VALUES('2', '1');
1 row inserted.
SQL>
SQL> INSERT INTO AC_Bridge(anime_id, character_id)
2 VALUES('2', '2');
1 row inserted.
SQL>
SQL> INSERT INTO AC_Bridge(anime_id, character_id)
2 VALUES('2', '3');
```

```
Keith Lopez
```

```
1 row inserted.
SQL>
SQL> INSERT INTO AC_Bridge(anime_id, character_id)
 2 VALUES('3', '4');
1 row inserted.
SQL>
SQL > /*
SQL>AS_Bridge Test Data
SQL>*/
SQL> INSERT INTO AS_Bridge(anime_id, studio_id)
 2 VALUES('3', '3');
1 row inserted.
SQL>
SQL> INSERT INTO AS_Bridge(anime_id, studio_id)
 2 VALUES('4', '3');
1 row inserted.
SQL>
SQL> INSERT INTO AS_Bridge(anime_id, studio_id)
 2 VALUES('2', '2');
```

```
Keith Lopez
1 row inserted.
SQL>
SQL> INSERT INTO AS_Bridge(anime_id, studio_id)
2 VALUES('5', '2');
1 row inserted.
SQL>
SQL> INSERT INTO AS_Bridge(anime_id, studio_id)
2 VALUES('1', '1');
1 row inserted.
SQL>
SQL>
SQL> select * from Anime;
```

ANIME_ID ANIME_TITLE EPISODES RELEASE_D RATING

1 Steins;Gate	24 06-APR-11	9
2 Bleach	366 05-OCT-04	8
3 One Piece	867 20-MAY-99	9
4 Dragonball Z	291 26-APR-89	8
5 Black Clover	88 03-OCT-17	7

SQL> select * from Manga;

MANGA_ID MANGA_TITLE CHAPTERS RELEASE_D RATING CREATOR_ID

1 Steins;Gate	23 26-SEP-09	8	1
2 Bleach	705 07-AUG-01	8	2
3 One Piece	941 22-JUL-97	9	3
4 Dragon Ball	519 20-JUN-15	7	4
5 Black Clover	203 16-FEB-15	8	5

SQL> select * from Creator;

CREATOR_ID FIRST_NAME M LAST_NAME AGE

1 Yomi J Sarachi 35
2 Tite Kubo 41
3 Oda Eiichiro 44
4 Akira Toriyama 64
5 Yuuki Tabata 34

SQL> select * from Studio;

STUDIO_ID STUDIO_NAME LOCATION

1 White Fox Tokyo
2 Studio Pierrot Tokyo
3 Toei Animation Tokyo
4 Madhouse Tokyo
5 TNK Nerima

Keith Lopez

SQL> select * from Genre;

GENRE DESCRIPTION

Action fights, speed...

Adventure traveling across places...

Horror scary...

Slice of life everyday life...

Fantasy dream-like world...

SQL> select * from Character;

CHARACTER_ID FIRST_NAME M LAST_NAME G AGE TYPE HAIR COLOR EYE COLOR

1 Monkey D Luffy M 15 Pirate Black Black

2 Ichigo Kurosaki M 15 Soul Reaper Orange Orange

3 Yuno M Wizard Black Yellow

4 Son Goku M Figter Black Black

5 Asta M Human Grey Green

SQL> select * from Users;

USERNAME FIRST_NAME M LAST_NAME BIRTHDAY G

bobby1 Bobby K Yu 02-MAY-97 M

bob2 Bob Rob 05-JUN-01 M

tanash Leroy Jenkins 26-APR-89 M

coolgamer2 Jen K Jane 02-MAY-96 F

Keith Lopez

yayeet Alexis King 04-MAY-65 O

SQL> select * from GM_Bridge;

GENRE	MANGA_ID			

Action 5

Adventure 5

Horror 2

Slice of life 1

Fantasy 1

SQL> select * from GA_Bridge;

GENRE	ANIME_ID
Action	5
Adventure	5

Horror 2 Slice of life 1

Fantasy 5

SQL> select * from AU_Bridge;

ANIME_ID USERNAME

1 bobby1

2 bobby1

3 bobby1 2 bob2 2 tanash SQL> select * from AC_Bridge; ANIME_ID CHARACTER_ID SQL> select * from AS_Bridge; ANIME_ID STUDIO_ID

Keith Lopez

SQL>

2 from Anime

3 order by episodes DESC;

SQL> select anime_id, anime_title as Title, episodes

ANIME_ID TITLE EPISODES				
3 One Piece 867				
2 Bleach 366				
4 Dragonball Z 291				
5 Black Clover 88				
1 Steins;Gate 24				
SQL>				
SQL> drop view several;				
View SEVERAL dropped.				
SQL>				
SQL> create view several as				
2 select Anime.anime_title, Manga.manga_title, Creator.last_name				
3 from Anime, Manga, Creator				
4 where Anime.anime_id=2 AND Manga.manga_id=2 AND Creator.creator_id =2;				
View SEVERAL created.				
SQL>				
SQL> select * from several;				
ANIME_TITLE MANGA_TITLE LAST_NAME				
Bleach Bleach Kubo				

SQL> SQL> create or replace view several as 2 select Anime.anime_title, Manga.manga_title, Creator.first_name, Creator.last_name 3 from Anime, Manga, Creator 4 where Anime.anime_id=2 AND Manga.manga_id=2 AND Creator.creator_id =2; View SEVERAL created. SQL> SQL> select * from several; ANIME_TITLE MANGA_TITLE FIRST_NAME LAST_NAME -----Bleach Bleach Tite Kubo SQL> SQL> */ mechanism to prevent duplicate primary keys*/ Error starting at line: 262 File @ M:\csis3222\proj\AnimeManipulation.sql In command -*/ mechanism to prevent duplicate primary keys*/ Error report -**Unknown Command** SQL> INSERT INTO Character (character id, first name, middle init, last name, gender, age, type, hair_color, eye_color) 2 VALUES('1', 'Monkey', 'D', 'Luffy', 'M', '15', 'Pirate', 'Black', 'Black');

Keith Lopez

Error starting at line: 263 File @ M:\csis3222\proj\AnimeManipulation.sql

In command -

INSERT INTO Character(character_id, first_name, middle_init, last_name, gender, age, type, hair_color, eye_color)

VALUES('1', 'Monkey', 'D', 'Luffy', 'M', '15', 'Pirate', 'Black', 'Black')

Error report -

ORA-00001: unique constraint (CSIS3222_LOPEZK8.SYS_C00249915) violated

SQL>

SQL>

SQL> SET ECHO OFF

SQL queries

Scripts

```
SPOOL Output-AnimeQueries.txt
--SPOOL Output.txt APPEND
SET ECHO ON
SET LINESIZE 32767
SET TRIMSPOOL ON
SET TRIMOUT ON
/* 1. List Anime by Episodes in descending order */
select anime_title
from Anime
Order by Episodes DESC;
/* 2. Get anime id that a character belongs to */
select anime_id
from AC_Bridge
where AC_Bridge.character_id=1;
/* 3. Calulate age of a User from their birthday */
select first_name, last_name, floor(months_between(sysdate,birthday)/12) as Age
from Users;
```

/* **4**. */

Keith Lopez

- /* 5. */
- /* 6. */
- /* **7.** */
- /* **8.** */
- /* **9.** */
- /* 10. */

SET ECHO OFF

SPOOL OFF

Output

/* 5. */

```
SPOOL Output-AnimeQueries.txt
--SPOOL Output.txt APPEND
SET ECHO ON
SET LINESIZE 32767
SET TRIMSPOOL ON
SET TRIMOUT ON
/* 1. List Anime by Episodes in descending order */
select anime_title
from Anime
Order by Episodes DESC;
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from AC_Bridge
where AC_Bridge.character_id=1;
/* 3. Calulate age of a User from their birthday */
select first_name, last_name, floor(months_between(sysdate,birthday)/12) as Age
from Users;
/* 4. */
```

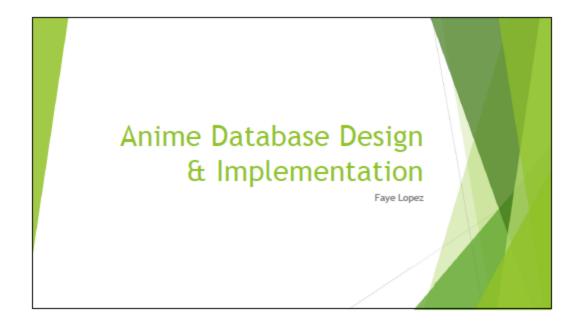
Keith Lopez

- /* 6. */
- /* **7.** */
- /* **8.** */
- /* 9. */
- /***** 10. *****/

SET ECHO OFF

SPOOL OFF

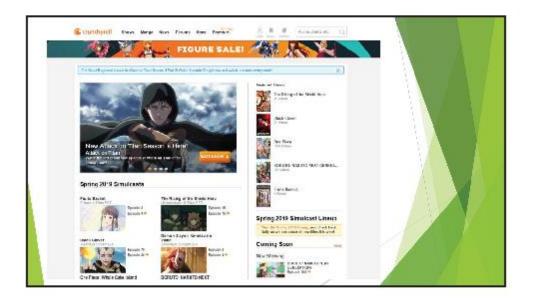
Slides



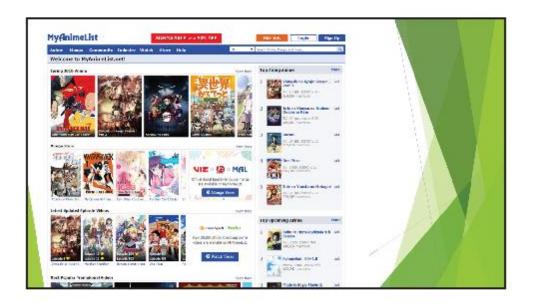






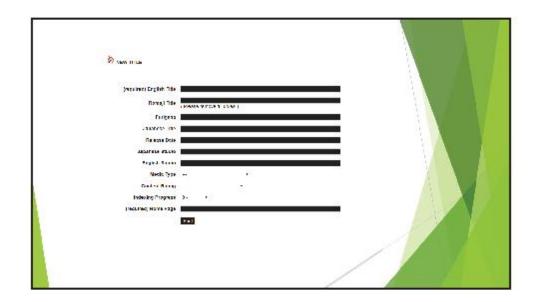


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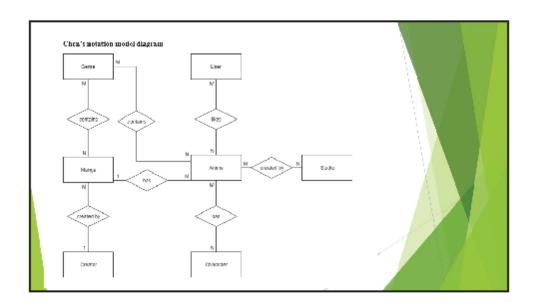


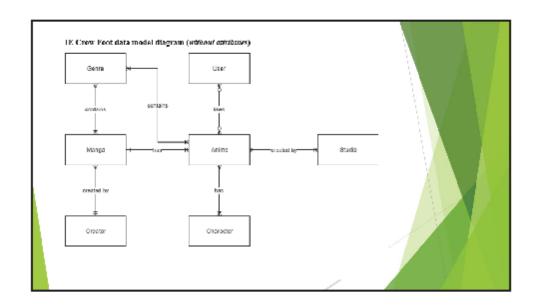
Scope

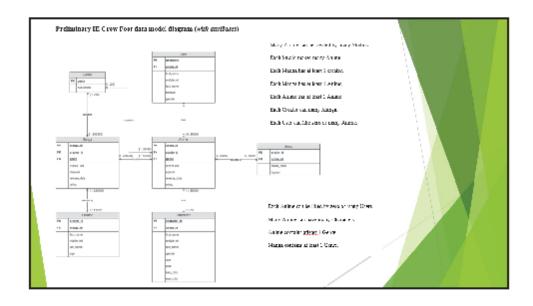
- Create a database of Anime.
- Relation database design and implementation.
 - ► Diagrams, sample data forms, prototypes
- More reliable and gets best parts from each website.
- Self-Sustainable.

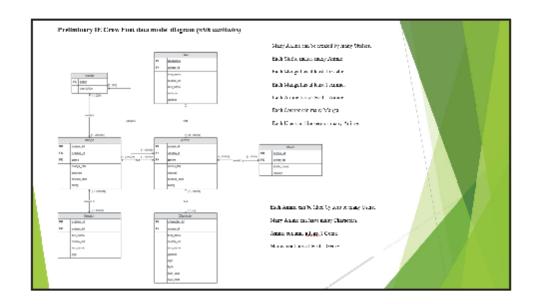
Entities

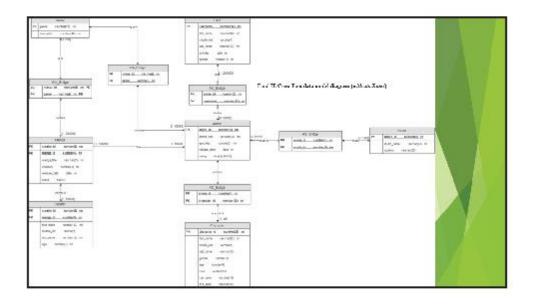
- > Anime the name of the anime and its attributes
- Manga graphic novels that are usually adapted into anime
- Studio the company or studio that creates and releases anime adaptations
- Genre all the different genre types
- ► Character characters in anime
- Creator creators of anime
- ▶ User anime fan account



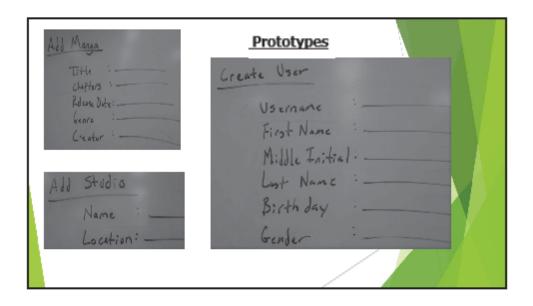


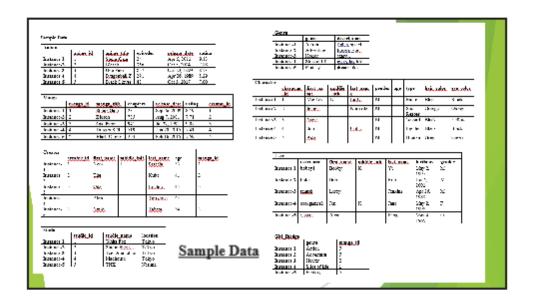


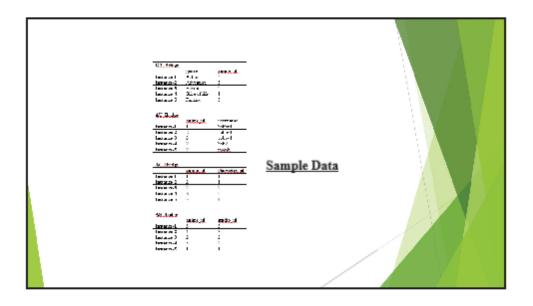




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```
| Color | Colo
```

```
Manipulating Data

SOLA select anime_id, anime_title as Title, episodes
2 from Anime
3 order by episodes UESC;

ANIME_ID TITLE EPISOUES

3 One Piece 8b/
2 Sleach 3b6
4 Dragombell 2 201
5 Slock Clover 88
1 Steins; Oste 24
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```
Creating Views

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Integrity

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Queries

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| Out | Part | Part | Part |
| Out | Part |
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