Danilo Zelenovic

501032542

Here is the current dump of the VNDB.db:

sqlite3 VNDB.db .dump

PRAGMA foreign\_keys=OFF;

BEGIN TRANSACTION;

CREATE TABLE Author (

AuthorID INTEGER PRIMARY KEY AUTOINCREMENT,

Name VARCHAR(255) NOT NULL,

CONSTRAINT ck\_author UNIQUE (Name)

);

INSERT INTO Author VALUES(1,'Nasu Kinoko');

INSERT INTO Author VALUES(2,'Nemlei');

INSERT INTO Author VALUES(3,'SCA-JI');

INSERT INTO Author VALUES(4,'Urobochi Gen');

INSERT INTO Author VALUES(5,'Fujisaka Ryuuta');

INSERT INTO Author VALUES(6,'Hanada Keika');

INSERT INTO Author VALUES(7,'Maeda Jun');

INSERT INTO Author VALUES(8,'Max Field');

INSERT INTO Author VALUES(9,'Takeuchi Takashi');

INSERT INTO Author VALUES(10,'Chitose');

CREATE TABLE Novel (

NovelID INTEGER PRIMARY KEY AUTOINCREMENT,

Title VARCHAR(255) NOT NULL,

AgeRating VARCHAR(10),

ReleaseDate DATE,

Status VARCHAR(50),

HighestRating REAL,

LowestRating REAL,

ReadingStatus VARCHAR(50)

);

INSERT INTO Novel VALUES(3,'Tsukihime: Blue Blue Glass Moon Under The Crimson Air','18+','2000-12-29','Complete',10.0,7.799999999999999823,'Read');

INSERT INTO Novel VALUES(4,'Fate/Stay Night','18+','2004-03-26','Complete',10.0,7.200000000000000177,'Read');

INSERT INTO Novel VALUES(5,'The House In Fata Morgana','17+','2016-07-27','Complete',9.59999999999999965,6.200000000000000177,'Currently Reading');

INSERT INTO Novel VALUES(6,'Class of 09','17+','2022-01-06','Complete',8.699999999999999289,5.400000000000000355,'Read');

INSERT INTO Novel VALUES(7,'Fate/Hollow Ataraxia','18+','2005-12-29','Complete',9.90000000000000035,8.300000000000000711,'Read');

INSERT INTO Novel VALUES(8,'Kagetsu Tohya','18+','2001-08-13','Complete',8.599999999999999645,6.599999999999999645,'Read');

INSERT INTO Novel VALUES(9,'Tsukihime PLUS-DISC','18+','2001-02-01','Complete',8.400000000000000355,6.200000000000000177,'Read');

INSERT INTO Novel VALUES(10,'Tsukihime -A Piece Of Blue Glass Moon-','18+','2021-08-26','Ongoing',10.0,8.300000000000000711,'Read');

INSERT INTO Novel VALUES(11,'The Coffin Of Andy And Leyley','15+','2023-03-25','Ongoing',8.599999999999999645,5.0,'Currently Reading');

INSERT INTO Novel VALUES(12,'Class of 09: The Re-Up','17+','2023-06-02','Complete',8.099999999999999645,6.700000000000000177,'Read');

INSERT INTO Novel VALUES(13,'Subarashiki Hibi ~Furenzoku Sonzai~','18+','2010-05-14','Complete',9.30000000000000072,7.299999999999999823,'Currently Reading');

INSERT INTO Novel VALUES(14,'Saya No Uta','18+','2003-12-26','Complete',8.400000000000000355,6.700000000000000177,'Currently Reading');

INSERT INTO Novel VALUES(15,'CLANNAD','All','2004-08-06','Complete',9.59999999999999965,7.5,'Currently Reading');

INSERT INTO Novel VALUES(16,'Grisaia No Kajitsu -Le Fruit De La Grisaia-','18+','2011-12-09','Complete',8.699999999999999289,7.200000000000000177,'Currently Reading');

CREATE TABLE VoiceActor (

VoiceActorID INTEGER PRIMARY KEY AUTOINCREMENT,

Name VARCHAR(255) NOT NULL,

Gender VARCHAR(10)

);

INSERT INTO VoiceActor VALUES(1,'Natsumura Isuke','Male');

INSERT INTO VoiceActor VALUES(2,'Sayama Shin','Male');

INSERT INTO VoiceActor VALUES(3,'Suzumiya Sui','Female');

INSERT INTO VoiceActor VALUES(4,'Kawashima Rino','Female');

INSERT INTO VoiceActor VALUES(5,'Kanemoto Ryousuke','Male');

INSERT INTO VoiceActor VALUES(6,'Hasegawa Ikumi','Female');

INSERT INTO VoiceActor VALUES(7,'Ichinose Kana','Female');

INSERT INTO VoiceActor VALUES(8,'Elsie Lovelock','Female');

INSERT INTO VoiceActor VALUES(9,'Kayli Mills','Female');

INSERT INTO VoiceActor VALUES(10,'Max Field','Male');

CREATE TABLE Composer (

ComposerID INTEGER PRIMARY KEY AUTOINCREMENT,

Name VARCHAR(255) NOT NULL,

CONSTRAINT ck\_composer UNIQUE (Name)

);

INSERT INTO Composer VALUES(1,'Kate');

INSERT INTO Composer VALUES(2,'Hideyuki Fukasawa');

INSERT INTO Composer VALUES(3,'Claude Debussy');

INSERT INTO Composer VALUES(4,'Nemlei');

INSERT INTO Composer VALUES(5,'szak');

INSERT INTO Composer VALUES(6,'H.B STUDIO');

INSERT INTO Composer VALUES(7,'Isoe Toshimichi');

INSERT INTO Composer VALUES(8,'James Harris');

INSERT INTO Composer VALUES(9,'ryo');

INSERT INTO Composer VALUES(10,'Elements Garden');

INSERT INTO Composer VALUES(11,'Eufonius');

CREATE TABLE Genre (

GenreID INTEGER PRIMARY KEY AUTOINCREMENT,

GenreName VARCHAR(255) NOT NULL,

CONSTRAINT ck\_genre UNIQUE (GenreName)

);

INSERT INTO Genre VALUES(1,'Drama');

INSERT INTO Genre VALUES(2,'Romance');

INSERT INTO Genre VALUES(3,'Mystery');

INSERT INTO Genre VALUES(4,'Suspense');

INSERT INTO Genre VALUES(5,'Psychological Horror');

INSERT INTO Genre VALUES(6,'Action');

INSERT INTO Genre VALUES(7,'Eroge');

INSERT INTO Genre VALUES(8,'Kinetic');

INSERT INTO Genre VALUES(9,'Plot-Driven');

INSERT INTO Genre VALUES(10,'Relationship-Driven');

INSERT INTO Genre VALUES(11,'Horror');

CREATE TABLE Platform (

PlatformID INTEGER PRIMARY KEY AUTOINCREMENT,

PlatformName VARCHAR(255) NOT NULL,

CONSTRAINT ck\_platform UNIQUE (PlatformName)

);

INSERT INTO Platform VALUES(1,'Nintendo Switch');

INSERT INTO Platform VALUES(2,'Android');

INSERT INTO Platform VALUES(3,'MAC OS');

INSERT INTO Platform VALUES(4,'Linux');

INSERT INTO Platform VALUES(5,'Windows');

INSERT INTO Platform VALUES(6,'Steam');

INSERT INTO Platform VALUES(7,'Web Browser');

INSERT INTO Platform VALUES(8,'XBOX');

INSERT INTO Platform VALUES(9,'Playstation');

INSERT INTO Platform VALUES(10,'DS');

INSERT INTO Platform VALUES(11,'GBA');

CREATE TABLE PublishedBy (

NovelID INTEGER,

AuthorID INTEGER,

FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),

FOREIGN KEY (AuthorID) REFERENCES Author(AuthorID),

PRIMARY KEY (NovelID, AuthorID)

);

CREATE TABLE WrittenBy (

NovelID INTEGER,

AuthorID INTEGER,

FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),

FOREIGN KEY (AuthorID) REFERENCES Author(AuthorID),

PRIMARY KEY (NovelID, AuthorID)

);

CREATE TABLE VoicedBy (

NovelID INTEGER,

VoiceActorID INTEGER,

Gender VARCHAR(10),

FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),

FOREIGN KEY (VoiceActorID) REFERENCES VoiceActor(VoiceActorID),

PRIMARY KEY (NovelID, VoiceActorID)

);

CREATE TABLE ComposedBy (

NovelID INTEGER,

ComposerID INTEGER,

FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),

FOREIGN KEY (ComposerID) REFERENCES Composer(ComposerID),

PRIMARY KEY (NovelID, ComposerID)

);

CREATE TABLE BelongsToGenre (

NovelID INTEGER,

GenreID INTEGER,

FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),

FOREIGN KEY (GenreID) REFERENCES Genre(GenreID),

PRIMARY KEY (NovelID, GenreID)

);

CREATE TABLE AvailableOn (

NovelID INTEGER,

PlatformID INTEGER,

FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),

FOREIGN KEY (PlatformID) REFERENCES Platform(PlatformID),

PRIMARY KEY (NovelID, PlatformID)

);

DELETE FROM sqlite\_sequence;

INSERT INTO sqlite\_sequence VALUES('Novel',16);

INSERT INTO sqlite\_sequence VALUES('Author',10);

INSERT INTO sqlite\_sequence VALUES('VoiceActor',10);

INSERT INTO sqlite\_sequence VALUES('Composer',11);

INSERT INTO sqlite\_sequence VALUES('Genre',11);

INSERT INTO sqlite\_sequence VALUES('Platform',11);

COMMIT;

The entity tables have been completed. The relationship tables have been in progress due to certain difficulties. Below is the list of commands done in order to accomplish this lab, but the base code is provided, and not the real examples used:

INSERT INTO Novel (Title, AgeRating, ReleaseDate, Status, HighestRating, LowestRating, ReadingStatus)

VALUES ('novel1', 15+, '2020-01-01', 'Complete', 6.5, 3.0, 'Read');

INSERT INTO Author (Name)

VALUES ('author1'), ('author2');

INSERT INTO VoiceActor (Name, Gender)

VALUES ('actor1', 'Male'), ('actor2', 'Female');

INSERT INTO Composer (Name)

VALUES ('composer1'), ('composer2');

INSERT INTO Genre (GenreName)

VALUES ('genre1'), ('genre2');

INSERT INTO Platform (PlatformName)

VALUES ('platform1'), ('platform2');

INSERT INTO PublishedBy (NovelID, AuthorID)

VALUES (1, 1), (2, 2);

INSERT INTO VoicedBy (NovelID, VoiceActorID, Gender)

VALUES (1, 1, 'Male'), (1, 2, 'Female');

INSERT INTO ComposedBy (NovelID, ComposerID)

VALUES (1, 1), (2, 2);

INSERT INTO BelongsToGenre (NovelID, GenreID)

VALUES (1, 1), (1, 2);

INSERT INTO AvailableOn (NovelID, PlatformID)

VALUES (1, 1), (2, 2);

The previously mentioned questions would include:

1. Who was the publisher?
   * Inserting the publisher’s name in the appropriate table would accomplish this. This would then be in a relationship with one or more novels.
2. Who was the scenario writer?
   * Inserting the writer’s name in the appropriate table would accomplish this. This would then be in a relationship with one or more novels.
3. What is the name of the leading male voice actor? (Or if none)
   * This would be accomplished by inserting this information into the appropriate table and then linking it to a novel with a relationship. This may be adjusted to include multiple voice actors and not just the leading one.
4. What is the name of the leading female voice actress? (Or if none)
   * This would be accomplished by inserting this information into the appropriate table and then linking it to a novel with a relationship. This may be adjusted to include multiple voice actors and not just the leading one.
5. What is the given age rating for the reading?
   * This is an attribute of the Novel entity. This can simply be inserted.
6. What was the highest rating I gave to a visual novel?
   * This is an attribute of the Novel entity. This can simply be inserted.
7. What was the lowest rating I gave a visual novel?
   * This is an attribute of the Novel entity. This can simply be inserted.
8. What genres were most common?
   * This is an attribute of the Novel entity. This is first to be inserted. From here, we will need to see which of the tuples is linked the most with novels.
9. Which platforms is it available on?
   * This is an attribute of the Novel entity. This can simply be inserted.
10. When was it released?
    * This is an attribute of the Novel entity. This can simply be inserted.
11. Have I read the novel, am I currently reading it, or is it on my wish list (or various such statuses)?
    * This is an attribute of the Novel entity. This can simply be inserted.
12. Who was main music composer?
    * This is an attribute of the Novel entity. This can simply be inserted.
13. What is the title of the novel?
    * This is an attribute of the Novel entity. This can simply be inserted.
14. How long does it take to complete, on average?
    * This can be added as an attribute of the Novel entity. This can be done using the insert function.
15. Who is the user?
    * Users will most likely not be used from now on.