



NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

Department of Computer Science and Engineering

DBMS PROJECT REPORT

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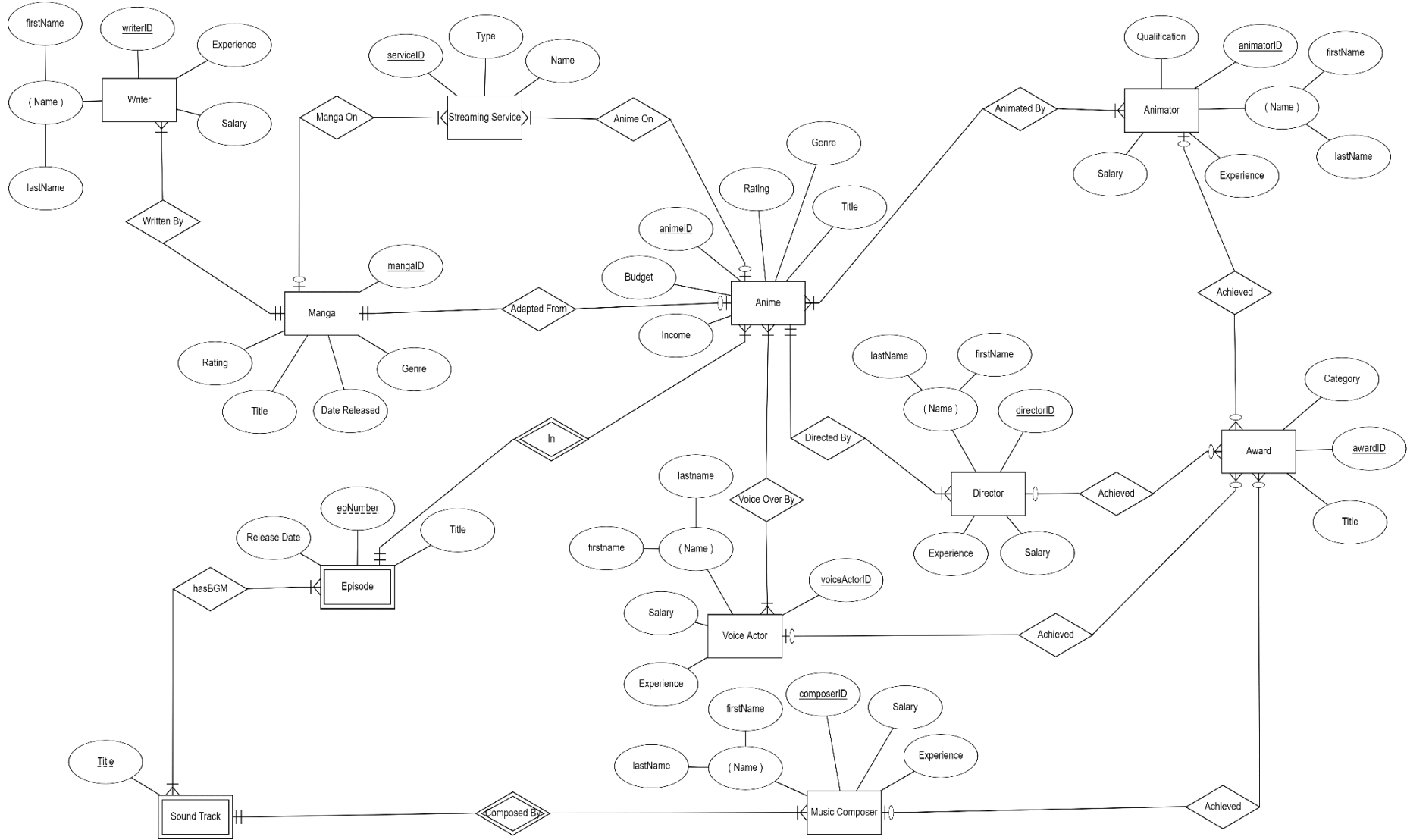
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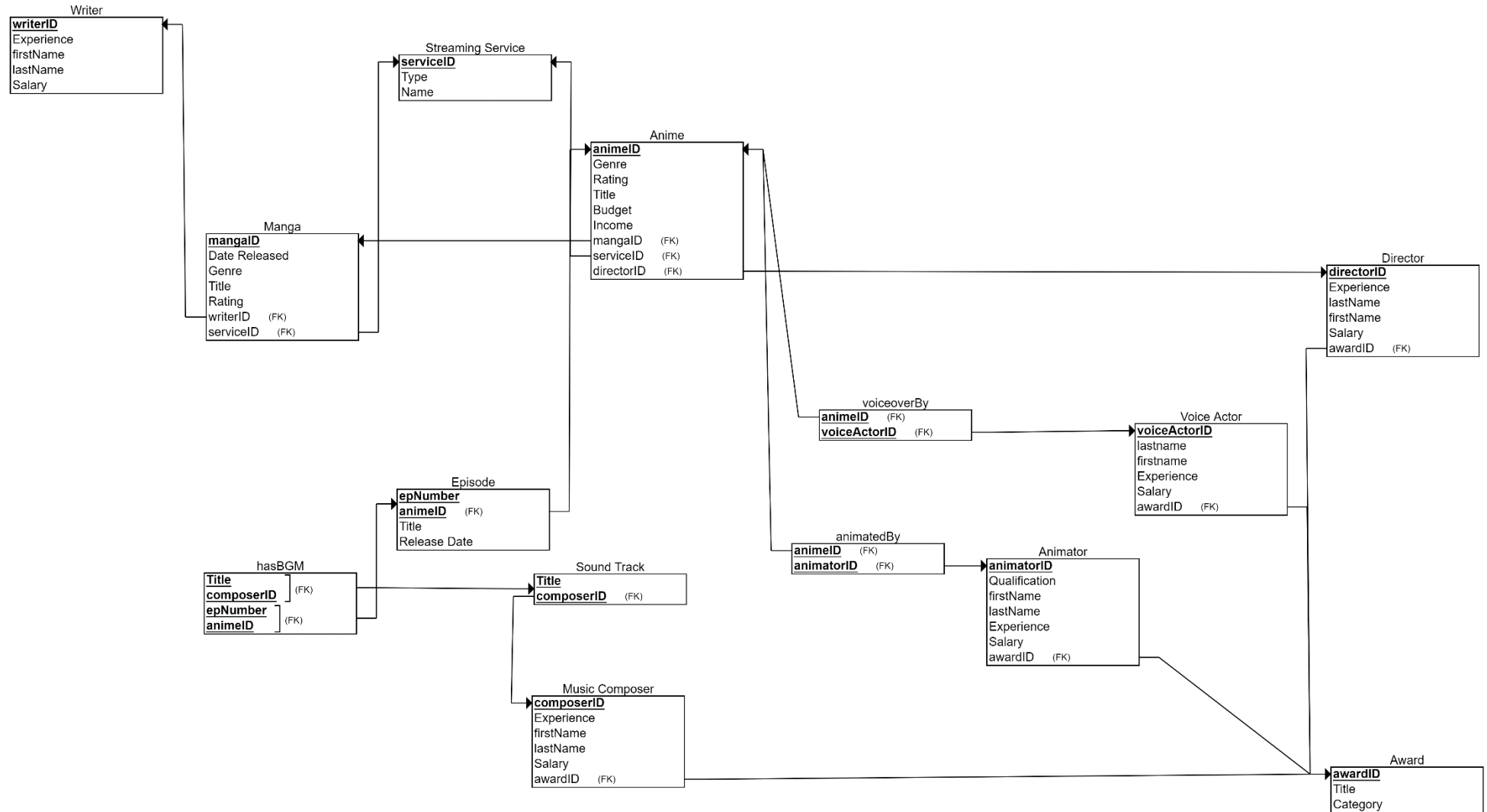
Problem statement:

This project involves the design of a database that will store and manage information related to an anime studio. The database will contain crucial and relevant information about writers, directors, manga, anime, awards, soundtracks, release dates, voice actors, genres, and more. The aim of the system is to enable easy access to information for users who are interested in the anime produced by the studio. Additionally, the system will allow for efficient management of the data, ensuring that information is organized, up-to-date, and easily searchable.

ENTITY RELATIONSHIP MODEL :



RELATIONAL SCHEMA :



ASSUMPTIONS :

- A writer can write any number of manga's but one manga can be written by only one writer.
- Each anime or manga will be streaming on single streaming platform but not reverse.
- Only few mangas will be adapted and animated as animes and every anime will be from a manga
- A single anime can have many animators and voice-actors but only one director.
- Each director/animator/voice actor/music composer can get award once only but one award can be given to many
- Each episode can have many soundtracks and each soundtrack can be in more than one episodes.
- Each soundtrack will be created by one composer but one composer can create many soundtracks.

NORMALISATION :

1.streamingService :

serviceID -> {type,name}

2.Writer:

writerID -> {Experience,lastName,firstName,Salary}

3.Director :

directorID -> {Experience,lastName,firstName,Salary,awardID}

4 Animator :

animeID -> {Experience,lastName,firstName,Salary,awardID,qualification}

5.musicComposer :

musicComposerID -> {Experience,lastName,firstName,Salary,awardID,qualificatio}

-> As these tables are having only one FD they all are in BCNF.

6.voiceActor :

voiceActorID -> {Experience,lastName,firstName,Salary,awardID}

8.voiceOverBy

9.animatedBy

10.SoundTrack

11.hasBGM :

{title,composerID,epNumber,animeID} ->{title,composerID,epNumber,animeID}

12.Manga :

mangaID -> {dateReleased,genre,title,rating,writerID,serviceID}

-> Here, some tables are having trivial and single FD's others are binary so they will be in BCNF.

13.Anime :

animeID -> {genre,rating,title,budget,income,mangaID,serviceID,directorID}

mangaID -> {genre,rating,title,budget,income,animeID,serviceID,directorID}

-> LHS of FD's are super keys so, it is in BCNF

14.episode :

{epNumber,animeID} -> {title,releaseDate}

-> As this table is having only one FD they all are in BCNF.

PRADYUMNA.WRITER		
P *	WRITERID	VARCHAR2 (10 BYTE)
	EXPERIENCE	NUMBER (*,0)
	FIRSTNAME	VARCHAR2 (20 BYTE)
	LASTNAME	VARCHAR2 (20 BYTE)
	SALARY	NUMBER (*,0)
WRITER_PK (WRITERID)		

PRADYUMNA.STREAMINGSERVICE		
P *	SERVICEID	VARCHAR2 (10 BYTE)
	SSTYPE	VARCHAR2 (20 BYTE)
	SSNAME	VARCHAR2 (20 BYTE)
STREAMINGSERVICE_PK (SERVICEID)		

PRADYUMNA.ANIMATEDBY		
PF *	ANIMATORID	VARCHAR2 (10 BYTE)
PF *	ANIMEID	VARCHAR2 (10 BYTE)
ANIMATEDBY_PK (ANIMATORID, ANIMEID)		
	SYS_C008293	(ANIMEID)
	SYS_C008294	(ANIMATORID)

PRADYUMNA.ANIMATOR		
P *	ANIMATORID	VARCHAR2 (10 BYTE)
	QUALIFICATION	VARCHAR2 (20 BYTE)
	EXPERIENCE	NUMBER (*,0)
	FIRSTNAME	VARCHAR2 (20 BYTE)
	LASTNAME	VARCHAR2 (20 BYTE)
	SALARY	NUMBER (*,0)
F	AWARDID	VARCHAR2 (10 BYTE)
ANIMATOR_PK (ANIMATORID)		
	SYS_C008293	(AWARDID)

PRADYUMNA.MANGA		
P *	MANGAID	VARCHAR2 (10 BYTE)
	DATERELEASED	TIMESTAMP
	GENRE	VARCHAR2 (20 BYTE)
	TITLE	VARCHAR2 (20 BYTE)
	RATING	FLOAT (126)
F	WRITERID	VARCHAR2 (10 BYTE)
F	SERVICEID	VARCHAR2 (10 BYTE)
MANGA_PK (MANGAID)		
	SYS_C008281	(WRITERID)
	SYS_C008282	(SERVICEID)

PRADYUMNA.ANIME		
P *	ANIMEID	VARCHAR2 (10 BYTE)
	GENRE	VARCHAR2 (20 BYTE)
	TITLE	VARCHAR2 (20 BYTE)
	RATING	FLOAT (126)
	BUDGET	NUMBER (*,0)
	INCOME	FLOAT (126)
F	SERVICEID	VARCHAR2 (10 BYTE)
F	DIRECTORID	VARCHAR2 (10 BYTE)
F	MANGAID	VARCHAR2 (10 BYTE)
ANIME_PK (ANIMEID)		
	SYS_C008272	(SERVICEID)
	SYS_C008273	(DIRECTORID)
	SYS_C008274	(MANGAID)

PRADYUMNA.DIRECTOR		
P *	DIRECTORID	VARCHAR2 (10 BYTE)
	EXPERIENCE	NUMBER (*,0)
	FIRSTNAME	VARCHAR2 (20 BYTE)
	LASTNAME	VARCHAR2 (20 BYTE)
	SALARY	NUMBER (*,0)
F	AWARDID	VARCHAR2 (10 BYTE)
DIRECTOR_PK (DIRECTORID)		
	SYS_C008299	(AWARDID)

PRADYUMNA.AWARD		
P *	AWARDID	VARCHAR2 (10 BYTE)
	TITLE	VARCHAR2 (20 BYTE)
	AWDCATEGORY	VARCHAR2 (50 BYTE)
AWARD_PK (AWARDID)		

PRADYUMNA.EPISODE		
P *	EPNUMBER	NUMBER (*,0)
PF *	ANIMEID	VARCHAR2 (10 BYTE)
	TITLE	VARCHAR2 (20 BYTE)
	DATERELEASED	TIMESTAMP
EPISODE_PK (EPNUMBER, ANIMEID)		
	SYS_C008288	(ANIMEID)

PRADYUMNA.VOICEOVERBY		
PF *	VOICEACTORID	VARCHAR2 (10 BYTE)
PF *	ANIMEID	VARCHAR2 (10 BYTE)
VOICEOVERBY_PK (VOICEACTORID, ANIMEID)		
	SYS_C008290	(ANIMEID)
	SYS_C008291	(VOICEACTORID)

PRADYUMNA.VOICEACTOR		
P *	VOICEACTORID	VARCHAR2 (10 BYTE)
	EXPERIENCE	NUMBER (*,0)
	FIRSTNAME	VARCHAR2 (20 BYTE)
	LASTNAME	VARCHAR2 (20 BYTE)
	SALARY	NUMBER (*,0)
F	AWARDID	VARCHAR2 (10 BYTE)
VOICEACTOR_PK (VOICEACTORID)		
	SYS_C008280	(AWARDID)

PRADYUMNA.HASBGM		
PF *	TITLE	VARCHAR2 (50 BYTE)
PF *	MUSICCOMPOSERID	VARCHAR2 (10 BYTE)
PF *	EPNUMBER	NUMBER (*,0)
PF *	ANIMEID	VARCHAR2 (10 BYTE)
HASBGM_PK (EPNUMBER, ANIMEID, MUSICCOMPOSERID, TITLE)		
	SYS_C008298	(MUSICCOMPOSERID, TITLE)
	SYS_C008299	(EPNUMBER, ANIMEID)

PRADYUMNA.SOUNDTRACK		
P *	TITLE	VARCHAR2 (50 BYTE)
PF *	MUSICCOMPOSERID	VARCHAR2 (10 BYTE)
SOUNDTRACK_PK (MUSICCOMPOSERID, TITLE)		
	SYS_C008296	(MUSICCOMPOSERID)

PRADYUMNA.MUSICCOMPOSER		
P *	MUSICCOMPOSERID	VARCHAR2 (10 BYTE)
	EXPERIENCE	NUMBER (*,0)
	FIRSTNAME	VARCHAR2 (20 BYTE)
	LASTNAME	VARCHAR2 (20 BYTE)
	SALARY	NUMBER (*,0)
F	AWARDID	VARCHAR2 (10 BYTE)
MUSICCOMPOSER_PK (MUSICCOMPOSERID)		
	SYS_C008286	(AWARDID)

TABLE INFORMATION :

1.STREAMING SERVICE :

```
CREATE TABLE streamingService(  
    serviceID VARCHAR(10) NOT NULL PRIMARY KEY, --ssid  
    ssType VARCHAR(20),  
    ssName VARCHAR(20)  
);
```

Name	Null?	Type
SERVICEID	NOT NULL	VARCHAR2(10)
SSTYPE		VARCHAR2(20)
SSNAME		VARCHAR2(20)

2. AWARD :

```
CREATE TABLE award(  
    awardID VARCHAR(10) NOT NULL PRIMARY KEY, --awdid  
    title VARCHAR(50),  
    awdCategory VARCHAR(50)  
);
```

Name	Null?	Type
AWARDID	NOT NULL	VARCHAR2(10)
TITLE		VARCHAR2(50)
AWDCATEGORY		VARCHAR2(50)

3. WRITER :

```
CREATE TABLE writer(  
    writerID VARCHAR(10) NOT NULL PRIMARY KEY, --wtrid  
    experience INT,  
    firstName VARCHAR(20),  
    lastName VARCHAR(20),  
    salary INT  
);
```

Name	Null?	Type
WRITERID	NOT NULL	VARCHAR2(10)
EXPERIENCE		NUMBER(38)
FIRSTNAME		VARCHAR2(20)
LASTNAME		VARCHAR2(20)
SALARY		NUMBER(38)

4.MANGA

```
CREATE TABLE manga(  
    mangaID VARCHAR(10) NOT NULL PRIMARY KEY, --mgid  
    dateReleased TIMESTAMP,  
    genre VARCHAR(20),  
    title VARCHAR(20),  
    rating FLOAT,  
    writerID VARCHAR(10),  
    serviceID VARCHAR(10),  
    FOREIGN KEY (writerID) REFERENCES writer(writerID),  
    FOREIGN KEY (serviceID) REFERENCES  
streamingService(serviceID)
```

);

Name	Null?	Type
MANGAID	NOT NULL	VARCHAR2 (10)
DATERELEASED		TIMESTAMP (6)
GENRE		VARCHAR2 (20)
TITLE		VARCHAR2 (20)
RATING		FLOAT (126)
WRITERID		VARCHAR2 (10)
SERVICEID		VARCHAR2 (10)

5. DIRECTOR :

```
CREATE TABLE director(  
    directorID VARCHAR(10) NOT NULL PRIMARY KEY, --dirid  
    experience INT,  
    firstName VARCHAR(20),  
    lastName VARCHAR(20),  
    salary INT,  
    awardID VARCHAR(10),  
    FOREIGN KEY (awardID) REFERENCES award(awardID)  
);
```

Name	Null?	Type
DIRECTORID	NOT NULL	VARCHAR2 (10)
EXPERIENCE		NUMBER (38)
FIRSTNAME		VARCHAR2 (20)
LASTNAME		VARCHAR2 (20)
SALARY		NUMBER (38)
AWARDID		VARCHAR2 (10)

6.VOICE ACTOR :

```
CREATE TABLE voiceActor(  

```

```

voiceActorID VARCHAR(10) NOT NULL PRIMARY KEY, --vacid
experience INT,
firstName VARCHAR(20),
lastName VARCHAR(20),
salary INT,
awardID VARCHAR(10),
FOREIGN KEY (awardID) REFERENCES award(awardID)
);

```

Name	Null?	Type
VOICEACTORID	NOT NULL	VARCHAR2 (10)
EXPERIENCE		NUMBER (38)
FIRSTNAME		VARCHAR2 (20)
LASTNAME		VARCHAR2 (20)
SALARY		NUMBER (38)
AWARDID		VARCHAR2 (10)

7.ANIMATOR:

```

CREATE TABLE animator(
    animatorID VARCHAR(10) NOT NULL PRIMARY KEY, --amtid
    qualification VARCHAR(80),
    experience INT,
    firstName VARCHAR(20),
    lastName VARCHAR(20),
    salary INT,
    awardID VARCHAR(10),
    FOREIGN KEY (awardID) REFERENCES award(awardID)
);

```

Name	Null?	Type
ANIMATORID	NOT NULL	VARCHAR2(10)
QUALIFICATION		VARCHAR2(80)
EXPERIENCE		NUMBER(38)
FIRSTNAME		VARCHAR2(20)
LASTNAME		VARCHAR2(20)
SALARY		NUMBER(38)
AWARDID		VARCHAR2(10)

8. MUSIC COMPOSER :

CREATE TABLE musicComposer(

musicComposerID VARCHAR(10) NOT NULL PRIMARY KEY, --
mcid

experience INT,

firstName VARCHAR(20),

lastName VARCHAR(20),

salary INT,

awardID VARCHAR(10),

FOREIGN KEY (awardID) REFERENCES award(awardID)

);

Name	Null?	Type
MUSICCOMPOSERID	NOT NULL	VARCHAR2(10)
EXPERIENCE		NUMBER(38)
FIRSTNAME		VARCHAR2(20)
LASTNAME		VARCHAR2(20)
SALARY		NUMBER(38)
AWARDID		VARCHAR2(10)

9.VOICE OVER

CREATE TABLE voiceOverBy(

voiceActorID VARCHAR(10),

animeID VARCHAR(10),

PRIMARY KEY (voiceActorID,animeID),

```

FOREIGN KEY (animeID) REFERENCES anime(animeID),
FOREIGN KEY (voiceActorID) REFERENCES
voiceActor(voiceActorID)
);

```

Name	Null?	Type
VOICEACTORID	NOT NULL	VARCHAR2(10)
ANIMEID	NOT NULL	VARCHAR2(10)

10. ANIMATED BY :

```

CREATE TABLE animator(
    animatorID VARCHAR(10) NOT NULL PRIMARY KEY, --amtid
    qualification VARCHAR(80),
    experience INT,
    firstName VARCHAR(20),
    lastName VARCHAR(20),
    salary INT,
    awardID VARCHAR(10),
    FOREIGN KEY (awardID) REFERENCES award(awardID)
);

```

Name	Null?	Type
ANIMATORID	NOT NULL	VARCHAR2(10)
ANIMEID	NOT NULL	VARCHAR2(10)

11. SOUNDTRACK :

```

CREATE TABLE soundTrack(

```

```

title VARCHAR(80),
musicComposerID VARCHAR(10),
PRIMARY KEY(musicComposerID,title),
FOREIGN KEY (musicComposerID) REFERENCES
musicComposer(musicComposerID)
);

```

Name	Null?	Type
TITLE	NOT NULL	VARCHAR2(80)
MUSICCOMPOSERID	NOT NULL	VARCHAR2(10)

12.hasBGM :

```

CREATE TABLE hasBGM(
    title VARCHAR(80),
    musicComposerID VARCHAR(10),
    epNumber INT,
    animeID VARCHAR(10),
    PRIMARY KEY (epNumber,animeID,musicComposerID,title),
    FOREIGN KEY (musicComposerID,title) REFERENCES
soundTrack(musicComposerID,title),
    FOREIGN KEY (epNumber,animeID) REFERENCES
episode(epNumber,animeID)
);

```


Name	Null?	Type
TITLE	NOT NULL	VARCHAR2(80)
MUSICCOMPOSERID	NOT NULL	VARCHAR2(10)
EPNUMBER	NOT NULL	NUMBER(38)
ANIMEID	NOT NULL	VARCHAR2(10)

13.ANIME :

```
CREATE TABLE anime(
    animeID VARCHAR(10) NOT NULL PRIMARY KEY, --anmid
    genre VARCHAR(20),
    title VARCHAR(20),
    rating FLOAT,
    budget INT,
    income INT,
    serviceID VARCHAR(10),
    directorID VARCHAR(10),
    mangaID VARCHAR(10),
    FOREIGN KEY (serviceID) REFERENCES
streamingService(serviceID),
    FOREIGN KEY (directorID) REFERENCES director(directorID),
    FOREIGN KEY (mangaID) REFERENCES manga(mangaID)
);
```

Name	Null?	Type
ANIMEID	NOT NULL	VARCHAR2(10)
GENRE		VARCHAR2(20)
TITLE		VARCHAR2(20)
RATING		FLOAT(126)
BUDGET		NUMBER(38)
INCOME		NUMBER(38)
SERVICEID		VARCHAR2(10)
DIRECTORID		VARCHAR2(10)
MANGAID		VARCHAR2(10)

14.EPISODE :

```
CREATE TABLE episode(
    epNumber INT,
    animeID VARCHAR(10),
    PRIMARY KEY (epNumber,animeID),
    FOREIGN KEY (animeID) REFERENCES anime(animeID),
    title VARCHAR(80),
    dateReleased TIMESTAMP
);
```

Name	Null?	Type
EPNUMBER	NOT NULL	NUMBER(38)
ANIMEID	NOT NULL	VARCHAR2(10)
TITLE		VARCHAR2(80)
DATERELEASED		TIMESTAMP(6)

INSERTIONS :

1.STREAMING SERVICE :

```
INSERT INTO streamingService VALUES ('ss001','website for anime','crunchyroll');
```

```
INSERT INTO streamingService VALUES ('ss002','App for anime','netflix');
```

```
INSERT INTO streamingService VALUES ('ss003','Website for both','9anime');
```

```
INSERT INTO streamingService VALUES ('ss004','App for manga','mangazone');
```

```
INSERT INTO streamingService VALUES ('ss005','website for manga','mangatoon');
```

```
SELECT * FROM streamingService;
```

	SERVICEID	SSTYPE	SSNAME
1	ss001	website for anime	crunchyroll
2	ss002	App for anime	netflix
3	ss003	Website for both	9anime
4	ss004	App for manga	mangazone
5	ss005	website for manga	mangatoon

2.AWARD:

```
INSERT INTO award VALUES ('awd001', 'MetaVerse Achievement Award', 'Animation');
```

```
INSERT INTO award VALUES ('awd002', 'TechnoWizard Innovation Prize', 'Direction');
```

```
INSERT INTO award VALUES ('awd003', 'Stellar Narrative Award', 'Direction');
```

```
INSERT INTO award VALUES ('awd004', 'Pixel Pioneer Medal', 'Direction');
```

```
INSERT INTO award VALUES ('awd005', 'Melodious Maestro Trophy ', 'Music');
```

```
INSERT INTO award VALUES ('awd006', 'Virtual Voice Virtuoso', 'Voice over');
```

```
INSERT INTO award VALUES ('awd007', 'Imagination Architect Prize',  
'Animation');
```

```
INSERT INTO award VALUES ('awd008', 'Harmony Virtuoso Award', 'Music');
```

```
INSERT INTO award VALUES ('awd009', 'Rhythmic Innovator Trophy', 'Music');
```

```
INSERT INTO award VALUES ('awd010', 'Vocal Artistry Honor', 'Voice over');
```

```
INSERT INTO award VALUES ('awd011', 'Dramatic Delivery Distinction', 'Voice  
over');
```

```
INSERT INTO award VALUES ('awd012', 'Character Conjuror Award',  
'Animation');
```

```
SELECT * FROM award;
```

	AWARDID	TITLE	AWDCATEGORY
1	awd001	MetaVerse Achievement Award	Animation
2	awd002	TechnoWizard Innovation Prize	Direction
3	awd003	Stellar Narrative Award	Direction
4	awd004	Pixel Pioneer Medal	Direction
5	awd005	Melodious Maestro Trophy	Music
6	awd006	Virtual Voice Virtuoso	Voice over
7	awd007	Imagination Architect Prize	Animation
8	awd008	Harmony Virtuoso Award	Music
9	awd009	Rhythmic Innovator Trophy	Music
10	awd010	Vocal Artistry Honor	Voice over
11	awd011	Dramatic Delivery Distinction	Voice over
12	awd012	Character Conjuror Award	Animation

3. WRITER :

```
INSERT INTO writer VALUES('wtr001', 7, 'Eiichiro', 'Oda', 145000);
```

```
INSERT INTO writer VALUES('wtr002', 9, 'Masashi', 'Kishimoto', 355000);
```

```
INSERT INTO writer VALUES('wtr003', 5, 'Kentaro', 'Miura', 465000);
```

```
INSERT INTO writer VALUES('wtr004',12, 'Akira', 'Toriyama', 140000);
```

```
INSERT INTO writer VALUES('wtr005',10, 'Hirohiko', 'Araki', 290000);
```

```

INSERT INTO writer VALUES('wtr006',14, 'Hajime', 'Isayama', 351000);
INSERT INTO writer VALUES('wtr007', 8, 'Keisuke', 'Itagaki', 30000);
INSERT INTO writer VALUES('wtr008',15, 'Naoki', 'Urasawa', 515000);
INSERT INTO writer VALUES('wtr009',13, 'Jang', 'Sung-Rak', 500000);
INSERT INTO writer VALUES('wtr010',11, 'Moto', 'Hagio', 465000);
SELECT * FROM writer;

```

	WRITERID	EXPERIENCE	FIRSTNAME	LASTNAME	SALARY
1	wtr001	7	Eiichiro	Oda	145000
2	wtr002	9	Masashi	Kishimoto	355000
3	wtr003	5	Kentaro	Miura	465000
4	wtr004	12	Akira	Toriyama	140000
5	wtr005	10	Hirohiko	Araki	290000
6	wtr006	14	Hajime	Isayama	351000
7	wtr007	8	Keisuke	Itagaki	30000
8	wtr008	15	Naoki	Urasawa	515000
9	wtr009	13	Jang	Sung-Rak	500000
10	wtr010	11	Moto	Hagio	465000

4.MANGA :

```

INSERT INTO manga VALUES ('mg001',TIMESTAMP '2003-01-15 23:00:00',
'Post-Apocalyptic', 'Attack on Titan', 9.3, 'wtr006', 'ss003');

INSERT INTO manga VALUES ('mg002',TIMESTAMP '1997-12-15 13:00:00',
'Adventure', 'ONE PIECE', 8.0, 'wtr004', 'ss004');

INSERT INTO manga VALUES ('mg003',TIMESTAMP '1999-11-17 20:00:00',
'Action', 'NARUTO', 8.6, 'wtr002', 'ss003');

INSERT INTO manga VALUES ('mg004',TIMESTAMP '2003-01-16 23:00:00',
'Martial Arts', 'BAKI', 7.9, 'wtr007', 'ss003');

INSERT INTO manga VALUES ('mg005',TIMESTAMP '2006-01-14 18:00:00',
'Supernatural', 'JOJO', 9.8, 'wtr005', 'ss003');

INSERT INTO manga VALUES ('mg006',TIMESTAMP '2005-01-01 08:00:00',
'Dark Fantasy', 'Berserk', 9.7, 'wtr003', 'ss004');

INSERT INTO manga VALUES ('mg007',TIMESTAMP '2007-01-05 21:00:00',
'Science Fiction', 'DR.SLUMP', 8.3, 'wtr001', 'ss005');

```

INSERT INTO manga VALUES ('mg008',TIMESTAMP '2004-03-25 22:00:00',
'Comedy', 'Slam Dunk', 8.8, 'wtr008', 'ss004');

INSERT INTO manga VALUES ('mg009',TIMESTAMP '2003-04-27 23:00:00',
'Bildungsroman', 'The Heart of Thomas', 8.0, 'wtr010','ss005');

INSERT INTO manga VALUES ('mg010',TIMESTAMP '2001-01-30 23:00:00',
'Action', 'SOLO LEVELING', 7.0,'wtr009','ss005');

SELECT * FROM manga;

❖ MANGAID	❖ DATERELEASED	❖ GENRE	❖ TITLE	❖ RATING	❖ WRITERID	❖ SERVICEID
1 mg001	15-01-03 11:00:00.000000000 PM	Post-Apocalyptic	Attack on Titan	9.3	wtr006	ss003
2 mg002	15-12-97 1:00:00.000000000 PM	Adventure	ONE PIECE	8	wtr004	ss004
3 mg003	17-11-99 8:00:00.000000000 PM	Action	NARUTO	8.6	wtr002	ss003
4 mg004	16-01-03 11:00:00.000000000 PM	Martial Arts	BAKI	7.9	wtr007	ss003
5 mg005	14-01-06 6:00:00.000000000 PM	Supernatural	JOJO	9.8	wtr005	ss003
6 mg006	01-01-05 8:00:00.000000000 AM	Dark Fantasy	Berserk	9.7	wtr003	ss004
7 mg008	25-03-04 10:00:00.000000000 PM	Comedy	Slam Dunk	8.8	wtr008	ss004
8 mg007	05-01-07 9:00:00.000000000 PM	Science Fiction	DR.SLUMP	8.3	wtr001	ss005
9 mg009	27-04-03 11:00:00.000000000 PM	Bildungsroman	The Heart of Thomas	8	wtr010	ss005
10 mg010	30-01-01 11:00:00.000000000 PM	Action	SOLO LEVELING	7	wtr009	ss005

5.DIRECTOR :

INSERT INTO director VALUES ('dir001', 5, 'Megumi','Ishitani', 100000,
'awd003');

INSERT INTO director VALUES ('dir002', 3, 'Masashi','Kishimoto', 80000,
'awd002');

INSERT INTO director VALUES ('dir003', 6, 'Shin','Itagaki', 120000,
'awd003');

INSERT INTO director VALUES ('dir004', 2, 'Naokatsu','Tsuda', 60000,
NULL);

INSERT INTO director VALUES ('dir005', 4, 'Masayuki','Kojima', 90000,
NULL);

INSERT INTO director VALUES ('dir006', 7, 'Shuhei','Morita', 150000,
'awd004');

INSERT INTO director VALUES ('dir007', 1, 'Sarah', 'Wang', 50000, NULL);

INSERT INTO director VALUES ('dir008', 5, 'Nobutaka','Nishizawa', 100000,
'awd004');


```
INSERT INTO director VALUES ('dir009', 3, 'Yuichiro','Hayashi', 80000, NULL);
```

```
INSERT INTO director VALUES ('dir010', 4, 'Toshiki','orasaki', 90000, 'awd002');
```

```
SELECT * FROM director;
```

	DIRECT...	EXPERIENCE	FIRSTNAME	LASTNAME	SALARY	AWARDID
1	dir001	5	Megumi	Ishitani	100000	awd003
2	dir002	3	Masashi	Kishimoto	80000	awd002
3	dir003	6	Shin	Itagaki	120000	awd003
4	dir004	2	Naokatsu	Tsuda	60000	(null)
5	dir005	4	Masayuki	Kojima	90000	(null)
6	dir006	7	Shuhei	Morita	150000	awd004
7	dir007	1	Sarah	Wang	50000	(null)
8	dir008	5	Nobutaka	Nishizawa	100000	awd004
9	dir009	3	Yuichiro	Hayashi	80000	(null)
10	dir010	4	Toshiki	orasaki	90000	awd002

6.VOICE ACTOR :

```
INSERT INTO voiceActor VALUES ('vac001', 5, 'Mayumi', 'Tanaka', 50000, 'awd006');
```

```
INSERT INTO voiceActor VALUES ('vac002', 8, 'Maile','Flanagan', 80000, NULL);
```

```
INSERT INTO voiceActor VALUES ('vac003', 3, 'Kirk','Thornton', 40000, 'awd011');
```

```
INSERT INTO voiceActor VALUES ('vac004',10, 'Yuki','Kaji', 100000, 'awd010');
```

```
INSERT INTO voiceActor VALUES ('vac005', 2, 'Tomokazu','Sugita', 30000, NULL);
```

```
INSERT INTO voiceActor VALUES ('vac006', 2, 'Marc','Diraison', 30000, NULL);
```

```
SELECT * FROM voiceActor;
```

VOICEACTORID	EXPERIENCE	FIRSTNAME	LASTNAME	SALARY	AWARDID
1 vac001	5	Mayumi	Tanaka	50000	awd006
2 vac002	8	Maile	Flanagan	80000	(null)
3 vac003	3	Kirk	Thornton	40000	awd011
4 vac004	10	Yuki	Kaji	100000	awd010
5 vac005	2	Tomokazu	Sugita	30000	(null)
6 vac006	2	Marc	Diraison	30000	(null)

7. ANIMATOR :

INSERT INTO animator VALUES ('amt001', 'Bachelor in Graphic', 8, 'Ayumi', 'Kurashima', 45000, 'awd012');

INSERT INTO animator VALUES ('amt002', 'Bachelor in Animation', 2, 'Sh?ji', 'Yonemura', 45000, 'awd012');

INSERT INTO animator VALUES ('amt003', 'Master in Fine Arts', 5, 'Shingo', 'Yamashita', 55000, NULL);

INSERT INTO animator VALUES ('amt004', 'Certificate in Animation', 1, 'Makoto', 'Fukami', 35000, NULL);

INSERT INTO animator VALUES ('amt005', 'Bachelor in Graphic Design', 4, 'Junichi', 'Hayama', 60000, 'awd001');

INSERT INTO animator VALUES ('amt006', 'Bachelor in Fine Arts', 3, 'Arifumi', 'Arifumi Imai', 50000, NULL);

INSERT INTO animator VALUES ('amt007', 'Master in Animation', 7, 'Tomonaga', 'KeKazuhide', 75000, 'awd007');

INSERT INTO animator VALUES ('amt008', 'Master in Fine Arts', 8, 'Hideaki', 'Anno', 45000, NULL);

INSERT INTO animator VALUES ('amt009', 'Master in Animation', 9, 'Kitar?', 'K?saka', 79000, 'awd007');

INSERT INTO animator VALUES ('amt010', 'Bachelor in Graphic Design', 7, 'Kimio', 'Yabuki', 55000, NULL);

SELECT * FROM animator;

	ANIMATORID	QUALIFICATION	EXPERIENCE	FIRSTNAME	LASTNAME	SALARY	AWARDID
1	amt002	Bachelor in Animation	2	Shōji	Yonemura	45000	awd012
2	amt003	Master in Fine Arts	5	Shingo	Yamashita	55000	(null)
3	amt004	Certificate in Animation	1	Makoto	Fukami	35000	(null)
4	amt005	Bachelor in Graphic Design	4	Junichi	Hayama	60000	awd001
5	amt006	Bachelor in Fine Arts	3	Arifumi	Arifumi Imai	50000	(null)
6	amt007	Master in Animation	7	Tomonaga	KeKazuhide	75000	awd007
7	amt008	Master in Fine Arts	8	Hideaki	Anno	45000	(null)
8	amt009	Master in Animation	9	Kitarō	Kōsaka	79000	awd007
9	amt010	Bachelor in Graphic Design	7	Kimio	Yabuki	55000	(null)
10	amt001	Bachelor in Graphic	8	Ayumi	Kurashima	45000	awd012

8. MUSIC COMPOSER :

INSERT INTO musicComposer VALUES ('mc001',10,'Kohei','Tanaka',
1000000, 'awd005');

INSERT INTO musicComposer VALUES ('mc002', 5,'Yasuharu','Takanashi',
800000, 'awd008');

INSERT INTO musicComposer VALUES ('mc003',10,'Yûgo','Kanno',
1000000, 'awd008');

INSERT INTO musicComposer VALUES ('mc004',10,'Kenji','Fujisawa',
1000000, 'awd009');

INSERT INTO musicComposer VALUES ('mc005',15,'JHiroyuki','Sawano',
1200000, NULL);

INSERT INTO musicComposer VALUES ('mc006', 8,'Susumu','Hirasawa',
900000, 'awd005');

INSERT INTO musicComposer VALUES ('mc007',10,'Yoko','Kanno', 1000000,
'awd005');

INSERT INTO musicComposer VALUES ('mc008', 5,'Joe','Hisaishi', 800000,
'awd008');

INSERT INTO musicComposer VALUES ('mc009',16,'Yuki','Kajiura',
1000000, 'awd008');

INSERT INTO musicComposer VALUES ('mc010',10,'royuki','hinata',
1000000, 'awd009');

INSERT INTO musicComposer VALUES ('mc011',15,'Ryuichi','Sakamoto',
1200000, NULL);

```
INSERT INTO musicComposer VALUES ('mc012', 8, 'Nobuo', 'Uematsu',
900000, NULL);
```

```
INSERT INTO musicComposer VALUES ('mc013', 7, 'Shir?', 'Sagisu', 900000,
NULL);
```

```
INSERT INTO musicComposer VALUES ('mc014', 4, 'yoko', 'Shimomura',
900000, NULL);
```

```
INSERT INTO musicComposer VALUES ('mc015', 8, 'Toshio', 'Masuda',
900000, NULL);
```

```
SELECT * FROM musicComposer;
```

	MUSICCOMPOSERID	EXPERIENCE	FIRSTNAME	LASTNAME	SALARY	AWARDID
1	mc001	10	Kohei	Tanaka	1000000	awd005
2	mc002	5	Yasuharu	Takanashi	800000	awd008
3	mc003	10	Yûgo	Kanno	1000000	awd008
4	mc004	10	Kenji	Fujisawa	1000000	awd009
5	mc005	15	JHiroyuki	Sawano	1200000	(null)
6	mc006	8	Susumu	Hirasawa	900000	awd005
7	mc007	10	Yoko	Kanno	1000000	awd005
8	mc008	5	Joe	Hisaishi	800000	awd008
9	mc009	16	Yuki	Kajiura	1000000	awd008
10	mc010	10	royuki	hinata	1000000	awd009
11	mc011	15	Ryuichi	Sakamoto	1200000	(null)
12	mc012	8	Nobuo	Uematsu	900000	(null)
13	mc013	7	Shirô	Sagisu	900000	(null)
14	mc014	4	yoko	Shimomura	900000	(null)
15	mc015	8	Toshio	Masuda	900000	(null)

9. VOICEOVER BY

```
INSERT INTO voiceOverBy VALUES ('vac002', 'anm001');
```

```
INSERT INTO voiceOverBy VALUES ('vac006', 'anm001');
```

```
INSERT INTO voiceOverBy VALUES ('vac005', 'anm002');
```

```
INSERT INTO voiceOverBy VALUES ('vac003', 'anm002');
```

```
INSERT INTO voiceOverBy VALUES ('vac006', 'anm003');
```

```
INSERT INTO voiceOverBy VALUES ('vac001', 'anm003');
```

```
INSERT INTO voiceOverBy VALUES ('vac002', 'anm003');
```

```
INSERT INTO voiceOverBy VALUES ('vac003', 'anm004');
```

```

INSERT INTO voiceOverBy VALUES ('vac006', 'anm004');
INSERT INTO voiceOverBy VALUES ('vac005', 'anm004');
INSERT INTO voiceOverBy VALUES ('vac001', 'anm005');
INSERT INTO voiceOverBy VALUES ('vac002', 'anm005');
INSERT INTO voiceOverBy VALUES ('vac003', 'anm005');
INSERT INTO voiceOverBy VALUES ('vac003', 'anm006');
INSERT INTO voiceOverBy VALUES ('vac004', 'anm006');
INSERT INTO voiceOverBy VALUES ('vac006', 'anm006');
SELECT * FROM voiceOverBy;

```

	VOICEACTORID	ANIMEID
1	vac001	anm003
2	vac001	anm005
3	vac002	anm001
4	vac002	anm003
5	vac002	anm005
6	vac003	anm002
7	vac003	anm004
8	vac003	anm005
9	vac003	anm006
10	vac004	anm006
11	vac005	anm002
12	vac005	anm004
13	vac006	anm001
14	vac006	anm003
15	vac006	anm004
16	vac006	anm006

10.ANIMATED BY

```

INSERT INTO animatedBy VALUES ('amt001', 'anm001');
INSERT INTO animatedBy VALUES ('amt002', 'anm001');
INSERT INTO animatedBy VALUES ('amt003', 'anm002');
INSERT INTO animatedBy VALUES ('amt004', 'anm002');
INSERT INTO animatedBy VALUES ('amt005', 'anm003');
INSERT INTO animatedBy VALUES ('amt006', 'anm003');
INSERT INTO animatedBy VALUES ('amt007', 'anm003');

```

```

INSERT INTO animatedBy VALUES ('amt008', 'anm004');
INSERT INTO animatedBy VALUES ('amt009', 'anm004');
INSERT INTO animatedBy VALUES ('amt010', 'anm004');
INSERT INTO animatedBy VALUES ('amt001', 'anm005');
INSERT INTO animatedBy VALUES ('amt004', 'anm005');
INSERT INTO animatedBy VALUES ('amt003', 'anm005');
INSERT INTO animatedBy VALUES ('amt005', 'anm006');
INSERT INTO animatedBy VALUES ('amt006', 'anm006');
INSERT INTO animatedBy VALUES ('amt007', 'anm006');
SELECT * FROM animatedBy;

```

	ANIMATORID	ANIMEID
1	amt001	anm001
2	amt001	anm005
3	amt002	anm001
4	amt003	anm002
5	amt003	anm005
6	amt004	anm002
7	amt004	anm005
8	amt005	anm003
9	amt005	anm006
10	amt006	anm003
11	amt006	anm006
12	amt007	anm003
13	amt007	anm006
14	amt008	anm004
15	amt009	anm004
16	amt010	anm004

11.SOUNDTRACK :

```

INSERT INTO soundTrack VALUES ('Vogel im Käfig','mc001');
INSERT INTO soundTrack VALUES ('Guren no Yumiya','mc001');
INSERT INTO soundTrack VALUES ('Ashes on The Fire','mc013');
INSERT INTO soundTrack VALUES ('We Are!','mc014');
INSERT INTO soundTrack VALUES ('BRAND NEW WORLD','mc002');

```

```

INSERT INTO soundTrack VALUES ('OVER THE TOP','mc003');
INSERT INTO soundTrack VALUES ('Sadness and Sorrow ','mc003');
INSERT INTO soundTrack VALUES ('Naruto Daily Life','mc004');
INSERT INTO soundTrack VALUES ('Next Hokage ','mc004');
INSERT INTO soundTrack VALUES ('STAND PROUD','mc005');
INSERT INTO soundTrack VALUES ('Giorno Theme','mc015');
INSERT INTO soundTrack VALUES ('Great Days','mc006');
INSERT INTO soundTrack VALUES ('Treasure Pleasure','mc007');
INSERT INTO soundTrack VALUES ('The Gong of Knockout','mc008');
INSERT INTO soundTrack VALUES ('RESOLVE','mc009');
INSERT INTO soundTrack VALUES ('Behelit','mc010');
INSERT INTO soundTrack VALUES ('Ghosts','mc011');
INSERT INTO soundTrack VALUES ('Murder','mc012');
SELECT * FROM soundTrack;

```

⚙	TITLE	⚙	MUSICCOMPOSERID
1	Guren no Yumiya		mc001
2	Vogel im Käfig		mc001
3	BRAND NEW WORLD		mc002
4	OVER THE TOP		mc003
5	Sadness and Sorrow		mc003
6	Naruto Daily Life		mc004
7	Next Hokage		mc004
8	STAND PROUD		mc005
9	Great Days		mc006
10	Treasure Pleasure		mc007
11	The Gong of Knockout		mc008
12	RESOLVE		mc009
13	Behelit		mc010
14	Ghosts		mc011
15	Murder		mc012
16	Ashes on The Fire		mc013
17	We Are!		mc014
18	Giorno Theme		mc015

12.HASBGM :

```
INSERT INTO hasBGM VALUES ('Vogel im Käfig','mc001',1,'anm001');
INSERT INTO hasBGM VALUES ('Vogel im Käfig','mc001',2,'anm001');
INSERT INTO hasBGM VALUES ('Guren no Yumiya','mc001',3,'anm001');
INSERT INTO hasBGM VALUES ('Ashes on The Fire','mc013',4,'anm001');
INSERT INTO hasBGM VALUES ('Guren no Yumiya','mc001',5,'anm001');
INSERT INTO hasBGM VALUES ('We Are!','mc014',1,'anm002');
INSERT INTO hasBGM VALUES ('BRAND NEW WORLD','mc002',2,'anm002');
INSERT INTO hasBGM VALUES ('We Are!','mc014',3,'anm002');
INSERT INTO hasBGM VALUES ('BRAND NEW WORLD','mc002',4,'anm002');
INSERT INTO hasBGM VALUES ('OVER THE TOP','mc003',5,'anm002');
INSERT INTO hasBGM VALUES ('Sadness and Sorrow ','mc003',1,'anm003');
INSERT INTO hasBGM VALUES ('Sadness and Sorrow ','mc003',2,'anm003');
INSERT INTO hasBGM VALUES ('Naruto Daily Life','mc004',3,'anm003');
INSERT INTO hasBGM VALUES ('Next Hokage ','mc004',4,'anm003');
INSERT INTO hasBGM VALUES ('Naruto Daily Life','mc004',5,'anm003');
INSERT INTO hasBGM VALUES ('STAND PROUD','mc005',1,'anm004');
INSERT INTO hasBGM VALUES ('Giorno Theme','mc015',2,'anm004');
INSERT INTO hasBGM VALUES ('STAND PROUD','mc005',3,'anm004');
INSERT INTO hasBGM VALUES ('Giorno Theme','mc015',4,'anm004');
INSERT INTO hasBGM VALUES ('Giorno Theme','mc015',5,'anm004');
INSERT INTO hasBGM VALUES ('Treasure Pleasure','mc007',1,'anm005');
INSERT INTO hasBGM VALUES ('The Gong of Knockout','mc008',2,'anm005');
INSERT INTO hasBGM VALUES ('Treasure Pleasure','mc007',3,'anm005');
INSERT INTO hasBGM VALUES ('RESOLVE','mc009',4,'anm005');
INSERT INTO hasBGM VALUES ('The Gong of Knockout','mc008',5,'anm005');
INSERT INTO hasBGM VALUES ('RESOLVE','mc009',4,'anm006');
INSERT INTO hasBGM VALUES ('Behelit','mc010',1,'anm006');
INSERT INTO hasBGM VALUES ('Ghosts','mc011',5,'anm006');
```


INSERT INTO hasBGM VALUES ('Murder','mc012',2,'anm006');

INSERT INTO hasBGM VALUES ('Behelit','mc010',3,'anm006');

SELECT * FROM hasBGM;

◆	TITLE	◆	MUSICCOMPOSERID	◆	EPNUMBER	◆	ANIMEID
1	Vogel im Käfig		mc001			1	anm001
2	We Are!		mc014			1	anm002
3	Sadness and Sorrow		mc003			1	anm003
4	STAND PROUD		mc005			1	anm004
5	Treasure Pleasure		mc007			1	anm005
6	Behelit		mc010			1	anm006
7	Vogel im Käfig		mc001			2	anm001
8	BRAND NEW WORLD		mc002			2	anm002
9	Sadness and Sorrow		mc003			2	anm003
10	Giorno Theme		mc015			2	anm004
11	The Gong of Knockout		mc008			2	anm005
12	Murder		mc012			2	anm006
13	Guren no Yumiya		mc001			3	anm001
14	We Are!		mc014			3	anm002
15	Naruto Daily Life		mc004			3	anm003
16	STAND PROUD		mc005			3	anm004
17	Treasure Pleasure		mc007			3	anm005
18	Behelit		mc010			3	anm006
19	Ashes on The Fire		mc013			4	anm001
20	BRAND NEW WORLD		mc002			4	anm002
21	Next Hokage		mc004			4	anm003
22	Giorno Theme		mc015			4	anm004
23	RESOLVE		mc009			4	anm005
24	RESOLVE		mc009			4	anm006
25	Guren no Yumiya		mc001			5	anm001
26	OVER THE TOP		mc003			5	anm002
27	Naruto Daily Life		mc004			5	anm003
28	Giorno Theme		mc015			5	anm004
29	The Gong of Knockout		mc008			5	anm005
30	Ghosts		mc011			5	anm006

13.ANIME :

INSERT INTO anime VALUES ('anm001', 'Post-Apocalyptic', 'attack on titan', 8.5, 3000000, 5000000, 'ss001', 'dir006', 'mg001');

INSERT INTO anime VALUES ('anm002', 'Adventure', 'ONE PIECE', 9.0, 2500000, 6000000, 'ss002', 'dir001', 'mg002');

INSERT INTO anime VALUES ('anm003', 'Action', 'NARUTO', 11.5, 2000000, 4000000, 'ss003', 'dir002', 'mg003');

INSERT INTO anime VALUES ('anm004', 'Martial Arts', 'baki', 8.82, 3500000, 5500000, 'ss001', 'dir010', 'mg004');

INSERT INTO anime VALUES ('anm005', 'Supernatural', 'JOJO', 9.5, 4000000, 7000000, 'ss003', 'dir004', 'mg005');

INSERT INTO anime VALUES ('anm006', 'Dark Fantasy', 'BERSERK', 8.5, 3000000, 5000000, 'ss002', 'dir005', 'mg006');

SELECT * FROM anime;

	ANIMEID	GENRE	TITLE	RATING	BUDGET	INCOME	SERVICEID	DIRECTORID	MANGAID
1	anm001	Post-Apocalyptic	attack on titan	8.5	3000000	5000000	ss001	dir006	mg001
2	anm002	Adventure	ONE PIECE	9	2500000	6000000	ss002	dir001	mg002
3	anm003	Action	NARUTO	9.9	2000000	4000000	ss003	dir002	mg003
4	anm004	Martial Arts	baki	8.8	3500000	5500000	ss001	dir010	mg004
5	anm005	Supernatural	JOJO	9.5	4000000	7000000	ss003	dir004	mg005
6	anm006	Dark Fantasy	BERSERK	8.5	3000000	5000000	ss002	dir005	mg006

14.EPISODE :

INSERT INTO episode VALUES (1, 'anm001', 'The Beginning', TIMESTAMP'2003-01-01 00:00:00');

INSERT INTO episode VALUES (2, 'anm001', 'The Next Chapter', TIMESTAMP'2003-01-08 00:00:00');

INSERT INTO episode VALUES (3, 'anm001', 'The Turning Point', TIMESTAMP'2003-01-15 00:00:00');

INSERT INTO episode VALUES (4, 'anm001', 'A New World', TIMESTAMP'2003-01-23 00:00:00');

INSERT INTO episode VALUES (5, 'anm001', 'The Journey Begins', TIMESTAMP'2003-01-30 05:00:00');

INSERT INTO episode VALUES (1, 'anm003', 'A Meeting With Destiny', TIMESTAMP'2014-02-01 05:00:00');

INSERT INTO episode VALUES (2, 'anm003', 'A Shinobi Determination', TIMESTAMP'2014-02-08 05:00:00');

INSERT INTO episode VALUES (3, 'anm003', 'Five Kage Summit', TIMESTAMP'2014-02-15 05:00:00');


```
INSERT INTO episode VALUES (4, 'anm003', 'Akatsuki suppression mission',
TIMESTAMP'2014-02-23 00:00:00');

INSERT INTO episode VALUES (5, 'anm003', 'A Dubious Offer! Tsunade Choice',
TIMESTAMP'2014-01-30 00:00:00');

INSERT INTO episode VALUES (1, 'anm002', 'East Blue Saga', TIMESTAMP'2019-02-01
05:00:00');

INSERT INTO episode VALUES (2, 'anm002', 'Arabasta Saga', TIMESTAMP'2019-03-08
05:00:00');

INSERT INTO episode VALUES (3, 'anm002', 'Water 7 Saga', TIMESTAMP'2019-03-15
05:00:00');

INSERT INTO episode VALUES (4, 'anm002', '', TIMESTAMP'2019-03-23 05:00:00');

INSERT INTO episode VALUES (5, 'anm002', 'Thriller Bark Saga', TIMESTAMP'2019-03-30
05:00:00');

INSERT INTO episode VALUES (1, 'anm004', 'Baki The Grappler', TIMESTAMP'2013-02-01
05:00:00');

INSERT INTO episode VALUES (2, 'anm004', 'The Ultimate Fighter,Baki The Grappler',
TIMESTAMP'2013-03-08 05:00:00');

INSERT INTO episode VALUES (3, 'anm004', 'Most Evil Death Row Convicts Special Anime',
TIMESTAMP'2013-03-15 05:00:00');

INSERT INTO episode VALUES (4, 'anm004', 'Baki: Most Evil Death Row Convicts Special
Anime.', TIMESTAMP'2013-03-23 00:00:00');

INSERT INTO episode VALUES (5, 'anm004', 'Thriller Bark Saga', TIMESTAMP'2013-03-30
00:00:00');

INSERT INTO episode VALUES (1, 'anm005', 'Silver Chariot', TIMESTAMP'2012-05-01
05:00:00');

INSERT INTO episode VALUES (2, 'anm005', 'Dark Blue Moon', TIMESTAMP'2012-05-08
05:00:00');

INSERT INTO episode VALUES (3, 'anm005', 'Strength', TIMESTAMP'2012-03-15 05:00:00');

INSERT INTO episode VALUES (4, 'anm005', 'Battle Tendency', TIMESTAMP'2012-11-23
00:00:00');

INSERT INTO episode VALUES (5, 'anm005', 'Thriller Bark Saga', TIMESTAMP'2012-11-30
00:00:00');

INSERT INTO episode VALUES (1, 'anm006', 'Kuroi kenshi', TIMESTAMP'1999-03-01
05:00:00');

INSERT INTO episode VALUES (2, 'anm006', 'Taka no dan', TIMESTAMP'1999-05-08 05:00:00');
```

INSERT INTO episode VALUES (3, 'anm006','Uijin ', TIMESTAMP'1999-05-15 05:00:00');

INSERT INTO episode VALUES (4, 'anm006', 'Kami no te', TIMESTAMP'2013-05-23 00:00:00');

INSERT INTO episode VALUES (5, 'anm006', 'TFushi no Zodd', TIMESTAMP'2013-05-30 00:00:00');

SELECT * FROM episode ORDER BY animeID,epNumber;

EPNUMBER	ANIMEID	TITLE	DATERELEASED
1	1 anm001	The Beginning	01-01-03 12:00:00.000000000 AM
2	2 anm001	The Next Chapter	08-01-03 12:00:00.000000000 AM
3	3 anm001	The Turning Point	15-01-03 12:00:00.000000000 AM
4	4 anm001	A New World	23-01-03 12:00:00.000000000 AM
5	5 anm001	The Journey Begins	30-01-03 5:00:00.000000000 AM
6	1 anm002	East Blue Saga	01-02-19 5:00:00.000000000 AM
7	2 anm002	Arabasta Saga	08-03-19 5:00:00.000000000 AM
8	3 anm002	Water 7 Saga	15-03-19 5:00:00.000000000 AM
9	4 anm002	(null)	23-03-19 5:00:00.000000000 AM
0	5 anm002	Thriller Bark Saga	30-03-19 5:00:00.000000000 AM
1	1 anm003	A Meeting With Destiny	01-02-14 5:00:00.000000000 AM
2	2 anm003	A Shinobi Determination	08-02-14 5:00:00.000000000 AM
3	3 anm003	Five Kage Summit	15-02-14 5:00:00.000000000 AM
4	4 anm003	Akatsuki suppression mission	23-02-14 12:00:00.000000000 AM
5	5 anm003	A Dubious Offer! Tsunade Choice	30-01-14 12:00:00.000000000 AM
6	1 anm004	Baki The Grappler	01-02-13 5:00:00.000000000 AM
7	2 anm004	The Ultimate Fighter,Baki The Grappler	08-03-13 5:00:00.000000000 AM
8	3 anm004	Most Evil Death Row Convicts Special Anime	15-03-13 5:00:00.000000000 AM
9	4 anm004	Baki: Most Evil Death Row Convicts Special Anime.	23-03-13 12:00:00.000000000 AM
0	5 anm004	Thriller Bark Saga	30-03-13 12:00:00.000000000 AM
1	1 anm005	Silver Chariot	01-05-12 5:00:00.000000000 AM
2	2 anm005	Dark Blue Moon	08-05-12 5:00:00.000000000 AM
3	3 anm005	Strength	15-03-12 5:00:00.000000000 AM
4	4 anm005	Battle Tendency	23-11-12 12:00:00.000000000 AM
5	5 anm005	Thriller Bark Saga	30-11-12 12:00:00.000000000 AM
6	1 anm006	Kuroi kenshi	01-03-99 5:00:00.000000000 AM
7	2 anm006	Taka no dan	08-05-99 5:00:00.000000000 AM
8	3 anm006	Uijin	15-05-99 5:00:00.000000000 AM
9	4 anm006	Kami no te	23-05-13 12:00:00.000000000 AM
0	5 anm006	TFushi no Zodd	30-05-13 12:00:00.000000000 AM

TRIGGERS USED :

-> We used a trigger namely 'checkRating' to restrict the type of value and range

of rating of Anime Table. Here the rating should be of type 'x.x' and it should be greater than or equal to 0.1 and less than or equal to 9.9.

-> So, we used user defined exceptions i.e, boundExpRating is raised when the value of rating is not in range of 0.1 and 9.9 and made as 0.1 if it is less than

0.1 and made as 9.9 if it is greater than 9.9.

-> inAppExpRating is another user defined exception we used which is raised

when rating is not in type 'x.x' and it is rounded to one decimal place.

/

```
SET SERVEROUTPUT ON;
```

```
CREATE OR REPLACE TRIGGER checkRating
```

```
BEFORE INSERT ON anime
```

```
FOR EACH ROW
```

```
DECLARE
```

```
boundExpRating EXCEPTION;
```

```
inAppExpRating EXCEPTION;
```

```
dupRating FLOAT;
```

```
BEGIN
```

```
    IF :new.rating > 9.9 OR :new.rating < 0.1 THEN
```

```
        RAISE boundExpRating;
```

```
    END IF;
```

```

dupRating := :new.rating;
IF dupRating != dupRating*100 THEN
    RAISE inAppExpRating;
END IF;
EXCEPTION
    WHEN boundExpRating THEN
        IF :new.rating < 0.1 THEN
            :new.rating := 0.1;
        ELSIF :new.rating > 9.9 THEN
            :new.rating := 9.9;
        END IF;
    WHEN inAppExpRating THEN
        :new.rating := ROUND(:new.rating,1);
END;
/

```

QUERIES :

1.SQL Query to show all the episodes and their corresponding BGM's from 'attack on titan' anime and order them by episode number.

```

SELECT hasBGM.title AS bgmTitle,epNumber
FROM anime JOIN hasBGM
ON anime.animeID=hasBGM.animeID
WHERE anime.title LIKE 'attack on titan'
ORDER BY epNumber;

```

BGMTITLE	EPNUMBER
1 Vogel im Käfig	1
2 Vogel im Käfig	2
3 Guren no Yumiya	3
4 Ashes on The Fire	4
5 Guren no Yumiya	5

2.SQL Query to show all the mangas that are not animated and their writer.

```
SELECT mangaID,mangaTitle,writer.writerID,
writer.firstName,writer.lastName
FROM (SELECT manga.mangaID,manga.title AS
      mangaTitle,writerID FROM manga LEFT JOIN anime
      ON manga.mangaID=anime.mangaID
WHERE anime.mangaID IS NULL)
T JOIN writer ON writer.writerID=T.writerID;
```

	MANGAID	MANGATITLE	WRITERID	FIRSTNAME	LASTNAME
1	mg007	DR.SLUMP	wtr001	Eiichiro	Oda
2	mg008	Slam Dunk	wtr008	Naoki	Urasawa
3	mg009	The Heart of Thomas	wtr010	Moto	Hagio
4	mg010	SOLO LEVELING	wtr009	Jang	Sung-Rak

3.SQL Querie to find awards recieved by animators of 'NARUTO'.

```
SELECT animatorID,firstName,lastName,  
award.awardID,title FROM  
(SELECT animator.animatorID,  
firstName,lastName,awardID FROM  
(SELECT * FROM  
anime JOIN animatedBy  
ON anime.animeID=animatedBy.animeID  
WHERE title LIKE 'NARUTO') T1 JOIN animator  
ON T1.animatorID=animator.animatorID  
WHERE awardID IS NOT NULL) T2 JOIN award  
ON T2.awardID=award.awardID;
```

	ANIMATORID	FIRSTNAME	LASTNAME	AWARDID	TITLE
1	amt005	Junichi	Hayama	awd001	MetaVerse Achievement Award
2	amt007	Tomonaga	KeKazuhide	awd007	Imagination Architect Prize

THANK YOU