Designing of Database for IMDB

SQL Query:

```
CREATE DATABASE Task_DB_SQL;

CREATE TABLE Movies
(
   MID varchar(5),
        mov_name varchar(255),
   rel_date date
);

INSERT INTO Movies
VALUES ('M01', 'SOTY','2015-02-02');
INSERT INTO Movies
VALUES ('M02', 'Baaghi 2','2015-02-02');
INSERT INTO Movies
VALUES ('M03', 'Badla','2015-02-02');

CREATE TABLE Genres
(
   GID varchar(5),
        gen_name varchar(255)
);

INSERT INTO Genres
VALUES ('G01', 'RomCom');
INSERT INTO Genres
VALUES ('G02', 'Action');
INSERT INTO Genres
VALUES ('G03', 'Thriller');

CREATE TABLE Artists
(
   AID varchar(5),
        art_name varchar(255),
   gender varchar(1)
);

INSERT INTO Artists
VALUES ('A01', 'Amitabh','M');
INSERT INTO Artists
VALUES ('A02', 'Alia','F');
INSERT INTO Artists
VALUES ('A03', 'Disha','F');
INSERT INTO Artists
VALUES ('A04', 'Tiger','M');
INSERT INTO Artists
VALUES ('A05', 'Varun','M');
INSERT INTO Artists
VALUES ('A006', 'Taapsi','F');

CREATE TABLE Role_types
(
   RID varchar(5),
        role_name varchar(255)
);

INSERT INTO Role_types
```

```
VALUES ('R01', 'Actor');
INSERT INTO Role_types
VALUES ('R02', 'Acteress');

CREATE TABLE Skill_types
(
   SID varchar(5),
        skill_name varchar(255)
);

INSERT INTO Skill_types
VALUES ('S01', 'Brand Ambassador');
INSERT INTO Skill_types
VALUES ('S02', 'Gym');
INSERT INTO Skill_types
VALUES ('S03', 'Poet');
INSERT INTO Skill_types
VALUES ('S04', 'Singing');

CREATE TABLE Movie_Medias
(
        MID varchar(5),
        media_type varchar(3),
        media_url varchar(255)
);

INSERT INTO Movie_Medias
VALUES ('M01', 'img', 'm01@img');
INSERT INTO Movie_Medias
VALUES ('M02', 'vid','m02@vid');
INSERT INTO Movie_Medias
VALUES ('M03', 'vid','m03@vid');

CREATE TABLE Movie_Reviews
(
   UID varchar(5),
   MID varchar(5),
        rating varchar(1),
   rev_date date
);

INSERT INTO Movie_Reviews
VALUES ('U01', 'M01','3','2015-02-02');
INSERT INTO Movie_Reviews
VALUES ('U01', 'M02','4','2015-02-02');
INSERT INTO Movie_Reviews
VALUES ('U01', 'M03','5','2015-02-02');
INSERT INTO Movie_Reviews
VALUES ('U02', 'M01','3','2015-02-02');
INSERT INTO Movie_Reviews
VALUES ('U02', 'M02','4','2015-02-02');
INSERT INTO Movie_Reviews
VALUES ('U02', 'M03','5','2015-02-02');
INSERT INTO Movie_Reviews
VALUES ('U03', 'M01','3','2015-02-02');
INSERT INTO Movie_Reviews
VALUES ('U03', 'M02','4','2015-02-02');
INSERT INTO Movie_Reviews
VALUES ('U03', 'M03','5','2015-02-02');

CREATE TABLE Movie_Genres
(
   GID varchar(5),
   MID varchar(5),
        nearness varchar(1)
);
```

```
INSERT INTO Movie_Genres
VALUES ('G01', 'M01', '5');
INSERT INTO Movie_Genres
VALUES ('G01', 'M02', '3');
INSERT INTO Movie_Genres
VALUES ('G01', 'M03', '0');
INSERT INTO Movie_Genres
VALUES ('G02', 'M01', '3');
INSERT INTO Movie_Genres
VALUES ('G02', 'M02', '5');
INSERT INTO Movie_Genres
VALUES ('G02', 'M03', '1');
INSERT INTO Movie_Genres
VALUES ('G03', 'M01', '0');
INSERT INTO Movie_Genres
VALUES ('G03', 'M02', '3');
INSERT INTO Movie_Genres
VALUES ('G03', 'M03', '5');

CREATE TABLE Artist_Roles
(
   AID varchar(5),
   RID varchar(5),
   MID varchar(5)
);

INSERT INTO Artist_Roles
VALUES ('A01', 'M03', 'R01');
INSERT INTO Artist_Roles
VALUES ('A02', 'M01', 'R02');
INSERT INTO Artist_Roles
VALUES ('A03', 'M02', 'R02');
INSERT INTO Artist_Roles
VALUES ('A04', 'M02', 'R01');
INSERT INTO Artist_Roles
VALUES ('A05', 'M01', 'R01');
INSERT INTO Artist_Roles
VALUES ('A06', 'M03', 'R02');

CREATE TABLE Artist_Skills
(
   AID varchar(5),
   SID varchar(5)
);

INSERT INTO Artist_Skills
VALUES ('A01','S01');
INSERT INTO Artist_Skills
VALUES ('A01','S03');
INSERT INTO Artist_Skills
VALUES ('A02','S01');
INSERT INTO Artist_Skills
VALUES ('A02','S04');
INSERT INTO Artist_Skills
VALUES ('A03','S01');
INSERT INTO Artist_Skills
VALUES ('A03','S02');
INSERT INTO Artist_Skills
VALUES ('A04','S02');
INSERT INTO Artist_Skills
VALUES ('A05','S01');
INSERT INTO Artist_Skills
VALUES ('A06','S02'
```

Querying on Designed Database

Screen Shots

```
1 •  Select * from movies
```

Result Grid | Filter Rows:

MID	mov_name	rel_date
M01	SOTY	2015-02-02
M02	Baaghi 2	2015-02-02
M03	Badla	2015-02-02

```
1 •  Select * from genres
```

Result Grid | Filter Rows:

GID	gen_name
G01	RomCom
G02	Action
G03	Thriller

```
1 •  Select * from artists
```

Result Grid | Filter Rows: | Export:

AID	art_name	gender
A01	Amitabh	M
A02	Alia	F
A03	Disha	F
A04	Tiger	M
A05	Varun	M
A006	Taapsi	F

```
1 •  Select * from role_types
```

Result Grid | Filter Rows:

RID	role_name
R01	Actor
R02	Acteress

```
1 •  Select * from skill_types
```

Result Grid | Filter Rows:

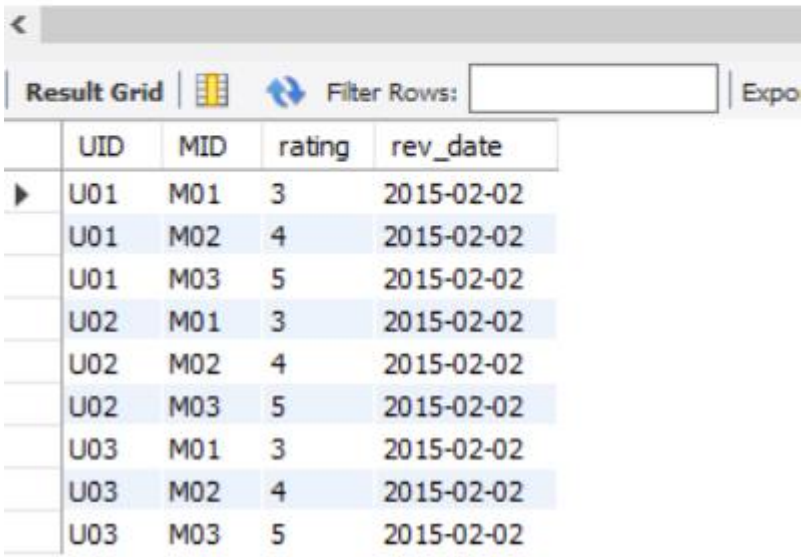
SID	skill_name
S01	Brand Ambassador
S02	Gym
S03	Poet
S04	Singing

```
1 •  Select * from movie_medias
```

Result Grid | Filter Rows:

MID	media_type	media_url
M01	img	m01@img
M02	vid	m02@vid
M03	vid	m03@vid

```
1 •  Select * from movie_reviews
```



Result Grid | Filter Rows: | Expo

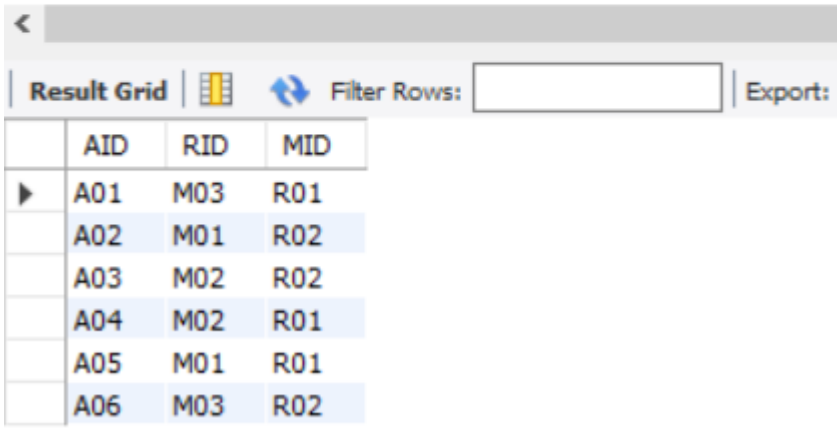
UID	MID	rating	rev_date
U01	M01	3	2015-02-02
U01	M02	4	2015-02-02
U01	M03	5	2015-02-02
U02	M01	3	2015-02-02
U02	M02	4	2015-02-02
U02	M03	5	2015-02-02
U03	M01	3	2015-02-02
U03	M02	4	2015-02-02
U03	M03	5	2015-02-02

```
1 •  Select * from movie_genres
```

Result Grid | Filter Rows: | Export:

GID	MID	nearness
G01	M01	5
G01	M02	3
G01	M03	0
G02	M01	3
G02	M02	5
G02	M03	1
G03	M01	0
G03	M02	3
G03	M03	5

```
1 •  Select * from Artist_Roles
```



Result Grid | Filter Rows: | Export:

AID	RID	MID
A01	M03	R01
A02	M01	R02
A03	M02	R02
A04	M02	R01
A05	M01	R01
A06	M03	R02

```
1 •  Select * from Artist_Skills
```

Result Grid | Filter Rows: | Export:

AID	SID
A01	S01
A01	S03
A02	S01
A02	S04
A03	S01
A03	S02
A04	S02
A05	S01
A06	S02

```
1 •  Select mov_name,media_url from movie_medias inner join movies on movie_medias.MID = movies.MID where mov_name = "Badla"
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

mov_name	media_url
Badla	m03@vid

```
1 •  Select distinct mov_name,media_url,UID, rating from movies inner join movie_medias
2    inner join movie_reviews on movie_medias.MID = movies.MID and movies.MID = movie_reviews.MID where mov_name = "SOTY"
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

mov_name	media_url	UID	rating
SOTY	m01@img	U01	3
SOTY	m01@img	U02	3
SOTY	m01@img	U03	3

```
1 • select uid,rating,mov_name from movie_reviews inner join movies on movies.MID = movie_reviews.MID where UID = "U03"
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

uid	rating	mov_name
U03	3	SOTY
U03	4	Baaghi 2
U03	5	Badla

```
1 • select * from Artists
2   inner join Artist_Skills on Artists.AID = Artist_Skills.AID
3   inner join skill_types on Artist_Skills.SID =  skill_types.SID
4   where art_name = "Amitabh"
```

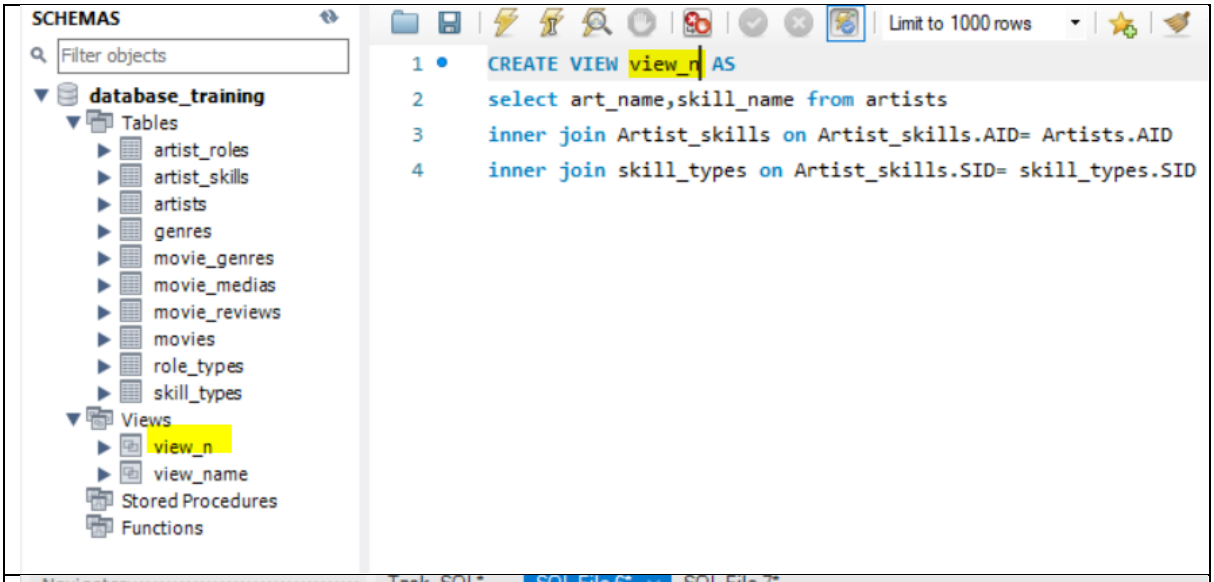
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

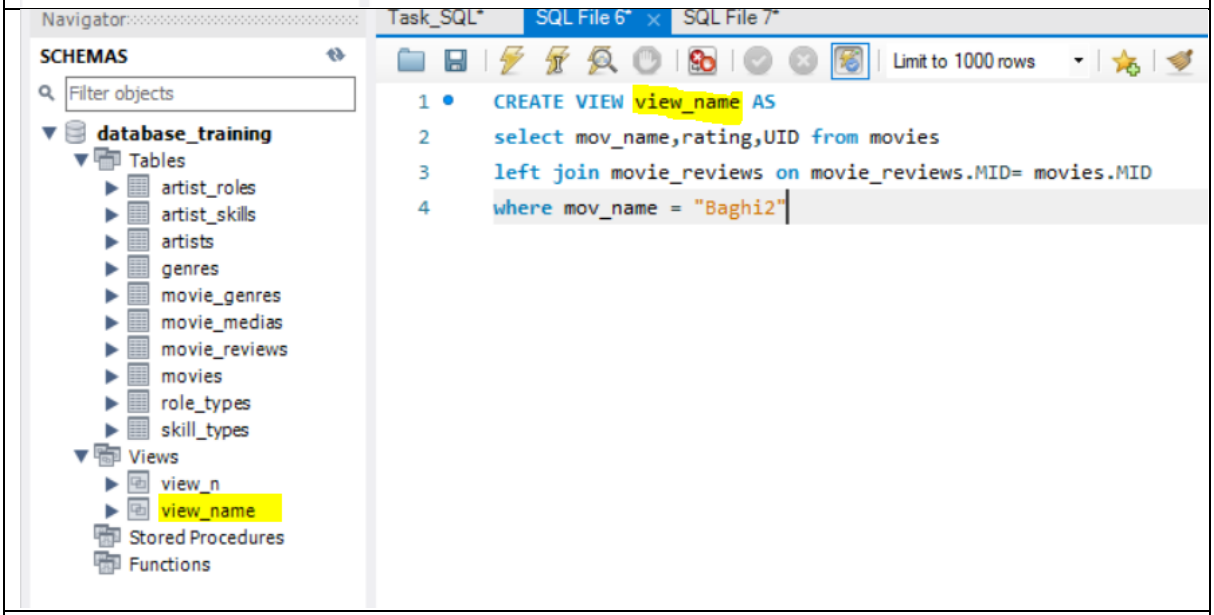
AID	art_name	gender	AID	SID	SID	skill_name
A01	Amitabh	M	A01	S01	S01	Brand Ambassador
A01	Amitabh	M	A01	S03	S03	Poet

```
1 • select art_name, role_name from Artists
2   left join Artist_Roles on Artist_Roles.AID= Artists.AID
3   left join role_types on  role_types.RID = Artist_Roles.MID
4   where art_name = "Amitabh" or art_name = "Disha"
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

art_name	role_name
Amitabh	Actor
Disha	Acteress


SCHEMAS
Filter objects
database_training
Tables
artist_roles
artist_skills
artists
genres
movie_genres
movie_medias
movie_reviews
movies
role_types
skill_types
Views
view_n
view_name
Stored Procedures
Functions
Limit to 1000 rows
1 CREATE VIEW view_n AS
2 select art_name,skill_name from artists
3 inner join Artist_skills on Artist_skills.AID= Artists.AID
4 inner join skill_types on Artist_skills.SID= skill_types.SID


Navigator
SCHEMAS
Filter objects
database_training
Tables
artist_roles
artist_skills
artists
genres
movie_genres
movie_medias
movie_reviews
movies
role_types
skill_types
Views
view_n
view_name
Stored Procedures
Functions
Task_SQL*
SQL File 6*
SQL File 7*
Limit to 1000 rows
1 CREATE VIEW view_name AS
2 select mov_name,rating,UID from movies
3 left join movie_reviews on movie_reviews.MID= movies.MID
4 where mov_name = "Baghi2"