

## MySQL : Creation of database IMDB and tables along with PRIMARY KEY, FOREIGN KEY creation and insertion of data into tables.

```
CREATE DATABASE IMDB;  
USE IMDB;
```

Action Output					
		Time	Action	Response	Duration / Fetch Time
✓ 1	18:48:39		CREATE DATABASE IMDB	1 row(s) affected	0.0015 sec
✓ 2	18:49:29		USE IMDB	0 row(s) affected	0.00030 sec

```
CREATE TABLE movie(  
  movie_id INT PRIMARY KEY NOT NULL,  
  title VARCHAR(100) NOT NULL,  
  director VARCHAR(100) NOT NULL,  
  release_year YEAR  
);
```

```
INSERT INTO movie(movie_id,title,director,release_year) VALUES  
(101,'Dangal','Nitesh Tiwari',2016),  
(102,'Baahubali2','Rajamouli',2017),  
(103,'PK','Rajkumar Hirani',2014),  
(104,'Leo','Lokesh Kanagaraj',2023),  
(105,'RRR','Rajamouli',2022);
```

✓ 3	18:51:19	CREATE TABLE movie( movie_id INT PRIMARY KEY NOT...	0 row(s) affected	0.0087 sec
✓ 4	18:51:24	INSERT INTO movie(movie_id,title,director,release_year...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0048 sec

```
SELECT * FROM movie;
```



100% 21:19					
Result Grid					
Filter Rows: Search					
	movie_id	title	director	release_year	
	101	Dangal	Nitesh Tiwari	2016	
	102	Baahubali2	Rajamouli	2017	
	103	PK	Rajkumar Hirani	2014	
	104	Leo	Lokesh Kanagaraj	2023	
	105	RRR	Rajamouli	2022	
	NULL	NULL	NULL	NULL	

**#movie\_id is used as a FOREIGN KEY**

```
CREATE TABLE media(  
  media_id INT PRIMARY KEY AUTO_INCREMENT,  
  movie_id INT,  
  media_type VARCHAR(200),  
  media_url VARCHAR(200),  
  FOREIGN KEY(movie_id) REFERENCES movie(movie_id)  
);
```

```
INSERT INTO media(movie_id,media_type,media_url) VALUES  
(101,'Dangal.mp4','https://dangal.mp4'),  
(102,'Baahubali2.jpeg','https://baahubali.mp3'),  
(103,'PKteaser.mp4','https://web//pk.mp4'),  
(104,'Leotrailer.mp4','www.leo.mp4'),  
(105,'RRR.png','https://rrr.mp3);
```






```
SELECT * FROM media;
```

Result Grid   Filter Rows: <input type="text" value="Search"/>				
	media_id	movie_id	media_type	media_url
1		101	Dangal.mp4	https://dangal.mp4
2		102	Baahubali2.jpeg	https://baahubali.mp3
3		103	PKteaser.mp4	https://web//pk.mp4
4		104	Leotrailer.mp4	www.leo.mp4
5		105	RRR.png	https://rrr.mp3
	NULL	NULL	NULL	NULL

```
CREATE TABLE genre(  
  genre_id INT PRIMARY KEY AUTO_INCREMENT,  
  movie_id INT,  
  movie_genre VARCHAR(100),  
  FOREIGN KEY(movie_id) REFERENCES movie(movie_id)  
);
```

```
INSERT INTO genre(movie_id,movie_genre) VALUES
(101,'Sports'),(102,'History'),(102,'Adventure'),(103,'Crime'),(103,'Suspense'),
(104,'Mystery'),(104,'Gangster'),(105,'War');
```






```
SELECT * FROM genre;
```

Result Grid   Filter Rows: <input type="text" value="Search"/> Edit:   			
	genre_id	movie_id	movie_genre
	1	101	Sports
	2	102	History
	3	102	Adventure
	4	103	Crime
	5	103	Suspense
	6	104	Mystery
	7	104	Gangster
	8	105	War
	NULL	NULL	NULL

```
CREATE TABLE user(
user_id INT PRIMARY KEY NOT NULL,
movie_id INT,
influencer VARCHAR(50),
people VARCHAR(50),
film_critics VARCHAR(50),
journalists VARCHAR(50),
FOREIGN KEY(movie_id) REFERENCES movie(movie_id)
);
```

```
INSERT INTO user(user_id,movie_id,influencer,people,film_critics,journalists) VALUES
(111,101,'Andrea David','Ritu','Deepak Dua','Anupama Chopra'),
(112,102,'Rishab Raj','Diya','Sucharita Tyagi','Khalid Mohamed'),
(113,104,'Ayush Mehra','Charan','Rajeev Masand','B. K. Karanjia');
```






SELECT \* FROM user;

Result Grid   Filter Rows: <input type="text" value="Search"/> Edit:   							
	user_id	movie_id	influencer	people	film_critics	journalists	
	111	101	Andrea David	Ritu	Deepak Dua	Anupama Chopra	
	112	102	Rishab Raj	Diya	Sucharita Tyagi	Khalid Mohamed	
	113	104	Ayush Mehra	Charan	Rajeev Masand	B. K. Karanjia	
	NULL	NULL	NULL	NULL	NULL	NULL	

```
CREATE TABLE reviews(  
  review_id INT PRIMARY KEY AUTO_INCREMENT,  
  user_id INT,  
  FOREIGN KEY(user_id) REFERENCES user(user_id),  
  comments VARCHAR(200)  
);
```

```
INSERT INTO reviews(user_id,comments) VALUES  
(111,'DANGAL is a masterpiece'),  
(112,'Baahubali2 is the finest film to come out of the film industry in a long time'),  
(113,'Leo flashback segments seemed unconvincing, which affected the second half'),  
(111,'Vijay delivers a commendable performance in both of his roles'),  
(113,'Allu Arjun is so powerful that it looks like there is no real antagonist');
```



SELECT \* FROM reviews;

Result Grid   Filter Rows: <input type="text" value="Search"/> Edit:    Export/Import							
	review_id	user_id	comments				
	1	111	DANGAL is a masterpiece				
	2	112	Baahubali2 is the finest film to come out of the film industry in a long time				
	3	113	Leo flashback segments seemed unconvincing, which affected the second half				
	4	111	Vijay delivers a commendable performance in both of his roles				
	5	113	Allu Arjun is so powerful that it looks like there is no real antagonist				
	NULL	NULL	NULL				

```
CREATE TABLE artist(
artist_id INT PRIMARY KEY,
movie_id INT,
artist_name VARCHAR(100),
skills VARCHAR(100),
FOREIGN KEY(movie_id) REFERENCES movie(movie_id)
);
```

```
INSERT INTO artist(artist_id,movie_id,artist_name,skills) VALUES
(201,101,'Aamir Khan','Martial Arts'),
(202,101,'Fatima Sana','Dancer'),
(203,102,'Prabhas','Fighter'),
(204,102,'Anushuka','Acting'),
(205,103,'Allu Arjun','Acting'),
(206,104,'Vijay','Singer'),
(207,104,'Vijay','Dancer');
```



```
SELECT * FROM artist;
```

Result Grid   Filter Rows: <input type="text" value="Search"/>				
	artist_id	movie_id	artist_name	skills
<input type="checkbox"/>	201	101	Aamir Khan	Martial Arts
<input type="checkbox"/>	202	101	Fatima Sana	Dancer
<input type="checkbox"/>	203	102	Prabhas	Fighter
<input type="checkbox"/>	204	102	Anushuka	Acting
<input type="checkbox"/>	205	103	Allu Arjun	Acting
<input type="checkbox"/>	206	104	Vijay	Singer
<input type="checkbox"/>	207	104	Vijay	Dancer
<input type="checkbox"/>	NULL	NULL	NULL	NULL

```
CREATE TABLE roles(
artist_id INT,
artist_role VARCHAR(100),
FOREIGN KEY(artist_id) REFERENCES artist(artist_id)
);
```






```
INSERT INTO roles(artist_id,artist_role) VALUES
(201,'Trainer'),
(202,'Student'),
(203,'Hero'),
(204,'Heroine'),
(205,'Thief'),
(205,'Hero'),
(206,'Police');
```

```
SELECT * FROM roles;
```




Result Grid   Filter Rows: <input type="text" value="Search"/>			
	artist_id	artist_role	
	201	Trainer	
<input type="checkbox"/>	202	Student	
	203	Hero	
<input type="checkbox"/>	204	Heroine	
	205	Thief	
<input type="checkbox"/>	205	Hero	
	206	Police	

### SQL Queries performed on the created tables:



SELECT movie\_id,title,director from movie where release\_year IN (2014,2017);

Result Grid   Filter Rows: <input type="text" value="Search"/>					Edit:   
	movie_id	title	director		
	102	Baahubali2	Rajamouli		
	103	PK	Rajkumar Hirani		
	NULL	NULL	NULL		



SELECT movie\_id,director from movie where director LIKE 'R%';

Result Grid   Filter Rows: <input type="text" value="Search"/>					Edit: 
	movie_id	director			
	102	Rajamouli			
	103	Rajkumar Hirani			
	105	Rajamouli			
	NULL	NULL			



SELECT movie\_id,media\_type as media\_video, media\_url as url FROM media;

Result Grid   Filter Rows: <input type="text" value="Search"/>				
	movie_id	media_video	url	
	101	Dangal.mp4	https://dangal.mp4	
	102	Baahubali2.jpeg	https://baahubali.mp3	
	103	PKteaser.mp4	https://web//pk.mp4	
	104	Leotrailer.mp4	www.leo.mp4	
	105	RRR.png	https://rrr.mp3	

UPDATE genre set movie\_genre='Epic-War' where movie\_id=105;

Result Grid   Filter Rows: <input type="text" value="Search"/> Edit:				
	genre_id	movie_id	movie_genre	
1		101	Sports	
2		102	History	
3		102	Adventure	
4		103	Crime	
5		103	Suspense	
6		104	Mystery	
7		104	Gangster	
8		105	Epic-War	
	NULL	NULL	NULL	



SELECT movie\_id,COUNT(\*) from artist GROUP BY movie\_id;

Result Grid   Filter Rows: <input type="text" value="Search"/>			
	movie_id	coun...	
	101	2	
	102	2	
	103	1	
	104	2	





Select title,artist\_name from movie

**INNER JOIN** artist where movie.movie\_id=artist.movie\_id;




Result Grid   Filter Rows: <input type="text" value="Search"/>			
	title	artist_name	
<input type="checkbox"/>	Dangal	Aamir Khan	
<input type="checkbox"/>	Dangal	Fatima Sana	
<input type="checkbox"/>	Baahubali2	Prabhas	
<input type="checkbox"/>	Baahubali2	Anushuka	
<input type="checkbox"/>	PK	Allu Arjun	
<input type="checkbox"/>	Leo	Vijay	
<input type="checkbox"/>	Leo	Vijay	
<input type="checkbox"/>			
<input type="checkbox"/>			

SELECT artist\_name, artist\_role FROM artist

**RIGHT JOIN** roles on artist.artist\_id=roles.artist\_id;

Result Grid   Filter Rows: <input type="text" value="Search"/>			
	artist_name	artist_role	
<input type="checkbox"/>	Aamir Khan	Trainer	
<input type="checkbox"/>	Fatima Sana	Student	
<input type="checkbox"/>	Prabhas	Hero	
<input type="checkbox"/>	Anushuka	Heroine	
<input type="checkbox"/>	Allu Arjun	Thief	
<input type="checkbox"/>	Allu Arjun	Hero	
<input type="checkbox"/>	Vijay	Police	

```
SELECT user_id,comments FROM reviews where user_id= (SELECT user_id from  
user LIMIT 1);
```

Result Grid   Filter Rows: <input type="text" value="Search"/>			Export: 	
	user_id	comments		
	111	DANGAL is a masterpiece		
	111	Vijay delivers a commendable performance in both of his roles		

```
DROP TABLE roles; #deletes the entire table
```

```
DROP DATABASE IMDB; #deletes the entire database
```