Delhi Technological University
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Department Of Applied Mathematics

MC-302: DATABASE MANAGEMENT SYSTEMS
Lab File

Submitted To: **Submitted By:**
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PRACTICAL 1

AIM:
1. Create a database, say Movies_DB.
2. Create at least two tables, say Movies and Actors.
3. Each table should have at least five columns.
4. Apply the following constraints on the table:
  a. Primary Key
  b. Not Null
  c. Unique
  d. Check
  e. Default
3. Insert a minimum of 15 entries in each table.
4. View the data using SELECT.

CODE:
```
show databases;
use movies_db;
create table Movies (
mID INT,
m_name VARCHAR(20) UNIQUE,
release_year INT CHECK(release_year > 1950),
director VARCHAR(40) NOT NULL,
producer VARCHAR(40) DEFAULT 'Unknown',
PRIMARY KEY(mID)
);

create TABLE Actors (
aID INT,
a_name VARCHAR(20) UNIQUE,
age INT CHECK(age > 18),
gender VARCHAR(10) DEFAULT 'male',
num_movies INT NOT NULL,
PRIMARY KEY(aID)
);

INSERT INTO Movies VALUES(1, 'godfather', 1972, 'salvatore corsitto', 'albert');
INSERT INTO Movies VALUES(2, 'schindlers list', 1993, 1965, 'spielberg');
INSERT INTO Movies VALUES(3, 'casablanca', 1978, 'xyz', 'abc');
INSERT INTO Movies VALUES(4, 'forrest gump', 1992, 'tom hanks', 'paramount');
INSERT INTO Movies VALUES(5, 'titanic', 1996, 'kate winslet', 'dicaprio');
INSERT INTO Movies VALUES(6, 'saving private ryan', 1984, 'matt damon', 'tom hanks');
INSERT INTO Movies VALUES(7, 'avatar', 2010, 'james cameron', 'fox');
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INSERT INTO Movies VALUES(8, 'fight club', 2000, 'tarantino', 'xyz');
INSERT INTO Movies VALUES(9, 'k3g', 2002, 'karan johar', 'dharma');
INSERT INTO Movies VALUES(10, 'kkhh', 1996, 'karan johar', 'dharma');
INSERT INTO Movies VALUES(11, 'wizard of oz', 1991, 'xyz', 'zxyz');
INSERT INTO Movies VALUES(12, 'wonder woman', 2016, 'marvel', 'uigiug');
INSERT INTO Movies VALUES(13, 'sun', 2020, 'hgdg', 'kjdshiuedg');
INSERT INTO Movies VALUES(14, 'rocketman', 2009, 'jack costco', 'universal studios');
INSERT INTO Movies VALUES(15, 'ring', 2011, 'sean penn', 'mel gibson');

INSERT INTO Actors VALUES(1, 'akshay kumar', 52, 'male', 67);
INSERT INTO Actors VALUES(2, 'kareena kapoor', 42, 'female', 34);
INSERT INTO Actors VALUES(3, 'salman khan', 53, 'male', 72);
INSERT INTO Actors VALUES(4, 'alia bhatt', 29, 'female', 24);
INSERT INTO Actors VALUES(5, 'angelina jolie', 38, 'female', 38);
INSERT INTO Actors VALUES(6, 'margot robbie', 33, 'female', 17);
INSERT INTO Actors VALUES(7, 'tom hanks', 59, 'male', 47);
INSERT INTO Actors VALUES(8, 'ajay devgan', 55, 'male', 36);
INSERT INTO Actors VALUES(9, 'kajol', 45, 'female', 32);
INSERT INTO Actors VALUES(10, 'matt damon', 48, 'male', 22);
INSERT INTO Actors VALUES(11, 'lenardo dicaprio', 58, 'male', 35);
INSERT INTO Actors VALUES(12, 'ranbir kapoor', 40, 'male', 20);
INSERT INTO Actors VALUES(13, 'deepika padukone', 34, 'female', 43);
INSERT INTO Actors VALUES(14, 'ranveer singh', 37, 'male', 18);
INSERT INTO Actors VALUES(15, 'chris hemsworth', 41, 'male', 21);
select * from Actors;
select * from Movies;

OUTPUT:

aID	a_name	age	gender	num_movies
1	akshay kumar	52	male	67
2	kareena kapoor	42	female	34
3	salman khan	53	male	72
4	alia bhatt	29	female	24
5	angelina jolie	38	female	38
6	margot robbie	33	female	17
7	tom hanks	59	male	47
8	ajay devgan	55	male	36
9	kajol	45	female	32
10	matt damon	48	male	22
11	lenardo dicaprio	58	male	35
12	ranbir kapoor	40	male	20
13	deepika paduk...	34	female	43
14	ranveer singh	37	male	18
15	chris hemsworth	41	male	21
NULL	NULL	NULL	NULL	NULL

mID	m_name	release_year	director	producer
1	godfather	1972	salvatore corsitto	albert
2	schindlers list	1993	1965	spielberg
3	casablanca	1978	xyz	abc
4	forrest gump	1992	tom hanks	paramount
5	titanic	1996	kate winslet	dicaprio
6	saving private ryan	1984	matt damon	tom hanks
7	avatar	2010	james cameron	fox
8	fight club	2000	tarantino	xyz
9	k3g	2002	karan johar	dharma
10	kkhh	1996	karan johar	dharma
11	wizard of oz	1991	xyz	zxyz
12	wonder woman	2016	marvel	uigiug
13	sun	2020	hgdg	kjdshiuedg
14	rocketman	2009	jack costco	universal ...
15	ring	2011	sean penn	mel gibson
NULL	NULL	NULL	NULL	NULL