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COURSE: Database Management Systems and Cloud Integration Services (18CSC209J)

ASSIGNMENT 3- PART 1

Q.1 Create a Movie table with MID, MNAME, Director, Producer, Movie-category, Actor, Year.

Note:

Insert the records with Actors as Karan,Thilak, producers as Arunachalam, Siva .

ANS.

```
CREATE TABLE Movie (  
  MID varchar(30),  
  Mname varchar(30),  
  Director varchar(30),  
  Producer varchar(30),  
  Movie_category varchar(30),  
  Actor varchar(30),  
  Year_release YEAR  
);
```

```
INSERT INTO Movie VALUES('John', 'Doe', 'Anurag', 'Arunachalam', 'Horror', 'Karan', 2021);
```

```
INSERT INTO Movie VALUES('Robert', 'Luna', 'Rajamouli', 'Siva', 'Action', 'Thilak', 2019);
```

```
INSERT INTO Movie VALUES('David', 'Robinson', 'Yash', 'Dhruv', 'Sci_Fi', 'Thilak', 2011);
```

```
INSERT INTO Movie VALUES('Betty', 'Reinhart', 'Siva', 'Siva', 'Action', 'Karan', 2022);
```

```
INSERT INTO Movie VALUES('Mary', 'Jane', 'Siva', 'Arunachalam', 'Romantic', 'Thilak', 2015);
```

```
INSERT INTO Movie VALUES('Johnathon', 'Silva', 'Shashi', 'Siva', 'Horror', 'Karan', 2023);
```

Movie

MID	Mname	Director	Producer	Movie_category	Actor	Year_release
Robert	AVATAR	Rajamouli	Siva	Action	Thilak	2019
David	SHERSHAAH	Yash	Dhruv	Sci_Fi	Thilak	2011
Betty	UNCHARTED	Siva	Siva	Action	Karan	2022
Mary	EXORCIST	Siva	Arunachalam	Romantic	Thilak	2015
Johnathon	WEDNESDAY	Shashi	Siva	Horror	Karan	2023
John	M3GAN	Anurag	Arunachalam	Horror	Karan	2021

Q.2 Find the movies casted by Karan.

ANS.

SELECT Mname from Movie where Actor ="Karan";

```
SELECT Mname from Movie where Actor ="Karan";
```

Output

Mname
UNCHARTED
WEDNESDAY
M3GAN

Q.3 Find the movies released by the producer Siva and Director Siva during the last 5 years

ANS.

SELECT Mname from Movie where Producer= 'Siva'AND Director='Siva'AND Year_release> 2017;

```
SELECT Mname from Movie where Producer= 'Siva'AND Director='Siva'AND Year_release> 2017;
```

Output

Mname
UNCHARTED

Q.4 List the movies according the year of release

ANS.

SELECT Mname, Year_release from Movie ORDER BY Year_release ASC;

```
SELECT Mname, Year_release from Movie ORDER BY Year_release ASC;  
|
```

Output

Mname	Year_release
SHERSHAAH	2011
EXORCIST	2015
AVATAR	2019
M3GAN	2021
UNCHARTED	2022
WEDNESDAY	2023

Q.5 Find the movies and movie categories ordered by year casted by the actor Thilak.

ANS.

SELECT Mname, Movie_Category from Movie where Actor ="Thilak" ORDER BY Year_release ASC;

```
SELECT Mname, Movie_Category from Movie where Actor ="Thilak" ORDER BY Year_release ASC;  
|
```

Output

Mname	Movie_category
SHERSHAAH	Sci-Fi
EXORCIST	Romantic
AVATAR	Action

Q.6 Find movies produced by Arunachalam after 2019.

ANS.

SELECT Mname from Movie where Producer="Arunachalam" AND Year_release >2019;

```
SELECT Mname from Movie where Producer="Arunachalam" AND Year_release >2019;
```

Output

Mname
M3GAN

PART 2

2) COMPANY TABLE

CREATE TABLE EMPLOYEE(

EMPID int,

NAME varchar(30)

);

CREATE TABLE DEPARTMENT(

EMPID int ,

DEPTID int

);

```
CREATE TABLE PROJECT(  
EMPID int,  
PROJECT varchar(30)  
);
```

```
CREATE TABLE WORKSON(  
EMPID int ,  
SUPERVISOR varchar(30),  
HOURS int  
);
```

```
CREATE TABLE DEPENDENT(  
EMPID int,  
NAME varchar(30)  
);
```

```
INSERT INTO EMPLOYEE VALUES(116,'JOSEPH');  
INSERT INTO DEPARTMENT VALUES(116 , 5);  
INSERT INTO PROJECT VALUES(116, 'PROJECTX');  
INSERT INTO WORKSON VALUES(116, 'FRANKLIN WORDS' ,13);  
INSERT INTO DEPENDENT VALUES(116,'JOSEPH' );
```

i)

```
SELECT DISTINCT * FROM EMPLOYEE WHERE EID IN (SELECT EID FROM DEPARTMENT WHERE  
DEPTID=5) AND EID IN (SELECT EID FROM WORKSON WHERE HOURS>=10) AND EID IN (SELECT  
EID FROM PROJECT WHERE PROJECT='PROJECTX');
```

ii)

```
SELECT EMPLOYEE.ENAME FROM EMPLOYEE, DEPENDENT WHERE  
EMPLOYEE.ENAME=DEPENDENT;
```

iii)

```
SELECT ENAME FROM EMPLOYEE WHERE EID IN (SELECT EID FROM WORKSON WHERE  
SUPERVISOR='FRANKLIN WORDS');
```