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COMP 3321 – Database Systems

October 16, 2018

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Assignment 5

* Creating the Cinema Database

Answer: CREATE DATABASE CinemaDB;

* Create Tables and Deciding Datatypes

MOVIE: CREATE TABLE MOVIE (

MovieName varchar (50) not null,

Description varchar(255) not null,

CONSTRAINT PK\_MOVIE\_MID PRIMARY KEY (MovieName)

)

THEATER: CREATE TABLE THEATER (

TheaterName varchar (35) not null,

Address varchar (255) not null,

City varchar (12) ,

Phone char (10),

DistanceToCenterOfSeattle varchar (12),

CONSTRAINT PK\_THEATER\_TID PRIMARY KEY (TheaterName)

)

SHOW\_TIME: CREATE TABLE SHOW\_TIME (

s\_id smallint (5) unsigned not null,

MN varchar(50) not null,

TN varchar(35) not null,

DayOfWeek varchar(9),

Date date,

ShowTime time,

CONSTRAINT PK\_SHOW\_TIME PRIMARY KEY (s\_id),

CONSTRAINT SHOW\_TIME\_FK\_MID FOREIGN KEY (MN) references

MOVIE (MovieName),

CONSTRAINT SHOW\_TIME\_FK\_TID FOREIGN KEY (TN) references

THEATER (TheaterName)

)

* Insert the Data into Tables

MOVIE: insert these data into Movies (MovieName, Description)  
 values are:

* (‘Murder in High School Homecoming Dance’, ‘This story takes place in November 1996 when one homecoming dance in California high school turned into murder mystery when the high school students, especially junior and seniors, end up getting killed by an unknown psychopath.’),
* (‘Shark Attacks in Spring Break’, ‘Shark Attacks in Spring Break is a one horror movie where college students go for spring break in Florida turns goes awry when a 75-foot great white shark starts attacking people, creating a havoc for these students as they struggle to survive not knowing one of them could be shark’s next meal’),
* (‘Yosemite National Park: The Beauty of Wild California’, ‘Yosemite National Park: The Beauty of Wild California is an extraordinary journey of discovery and tourism, where it transports the audience to this beautiful nature of Yosemite and other mysterious parts of the park. It’s packed with excitement, information and awe, we take you on a ride to the beautiful park in Wild California’),
* (‘Block Party’, ‘It’s a story of four families fighting over one diamond, so they do a block party in a cul-de sac neighborhood to see which family gets the luxurious diamond in this hilarious comedy’),
* (‘Trapped in Vietnam’, Keith Sunderland plays the disturbed army man who tries to escape the POV along with other army men during the Vietnam War in 1967’),
* (‘The Twilight Zone in Time Machine’, ‘It’s based on the 1960’s classic, The Twilight Zone, where one man named Dalton, is trying to get to his past using the time machine, but the time machine takes him on a wild ride to era’s like the WWII, the 1970s, 1980s, etc.’)

THEATER: insert into Theater(Theater\_Name, Address, City, Phone, DistanceToCenterOfSeattle)

Values are:

* ('Wortham Theater', '2020 Herman Park Dr.', 'Houston', 7700222448, '2,368 miles'),
* ('AMC Miami 15', '5501 Atlantic Rd.', ‘Miami’, 9198788977, '2,879 miles'),
* (‘AMC Theater Odessa', '4 Odessa Theatre Square', ‘Odessa’, 9258549178, '869 miles'),
* ('Hawkins Southfield 18', '8721 Southfield Blvd.', 'Denver', 7203743118, '1,308 miles'),
* ('Moon Plaza Twin Theaters Pasadena ', '7754 Zane Plz.', 'Pasadena', 4785435531, '695 miles')

SHOW\_TIME: insert these data into Show\_Time (s\_id, MN, TN, DayOfWeek, Date, ShowTime)

Values are:

* (‘Murder in High School Homecoming Dance', 'Wortham Theater’, ‘2018-10-16', ‘8:00:00’),
* (‘Shark Attack in Spring Break’, ‘Wortham Theater’, ‘2018-10-16, ‘9:15:00’),
* (‘Yosemite National Park: The Beauty in Wild California’, ‘AMC Miami 15’, ‘2018-10-16', ‘7:25:00’),
* (‘Block Party’, ‘AMC Miami 15’, ‘2018-10-16', ‘8:55:00’),
* (‘Murder in High School Homecoming Dance’, ‘AMC Theater Odessa’, ‘2018-10-16', ‘7:15:00’),
* (‘The Twilight Zone in Time Machine’, ‘AMC Theater Odessa’, ‘2018-10-16', ‘10:10:00’),
* (‘Trapped in Vietnam’, ‘Hawkins Southfield 18’, ‘2018-10-16’, ‘6:45:00’),
* (‘The Twilight Zone in Time Machine’, ‘Hawkins Southfield 18’, ‘2018-10-16’, ‘6:30:00’),
* (‘Yosemite National Park: The Beauty in Wild California’, ‘Moon Plaza Twin Theaters Pasadena’, ‘2018-10-16', ‘7:45:00’),
* (‘Block Party’, ‘Moon Plaza Twin Theaters Pasadena’, ‘2018-10-16', ‘8:45:00’)
* Add Zip\_Code column to Theater Table

First you start with: ALTER TABLE THEATER  
 ADD Zip\_Code char (5);

Next:

update Theater set Zip\_code = '77002' where Theater\_Name = 'Wortham Theatre';

update Theater set Zip\_code = '25688' where Theater\_Name = 'AMC Miami 15';

update Theater set Zip\_code = '93845' where Theater\_Name = AMC Theater Odessa';

update Theater set Zip\_code = '87815' where Theater\_Name = 'Hawkins Southfield 18';

update Theater set Zip\_code = '68971' where Theater\_Name = 'Moon Plaza Twin Theaters Pasadena';

Bonus: Define new surrogate primary key attributes.

ALTER TABLE Show\_Time

DROP constraint Show\_TimeFK\_MID foreign key (MN) references Movie(MovieName),

DROP constraint Show\_TimeFK\_TID foreign key (TN) references Theater(TheaterName)

ADD constraint Show\_TimeFK\_MID foreign key (MN) references Movie(MovieID),

ADD constraint Show\_TimeFK\_TID foreign key (TN) references Theater(TheaterID)

ALTER TABLE Theater

DROP constraint TheaterPK\_TID primary key (TheaterName)

ADD Theater\_ID smallint(5) unsigned not null

ADD constraint TheaterPK\_TID primary key (TheaterID)

ALTER TABLE Movie

Drop constraint MoviePK\_MID primary key (MovieName)

ADD Movie\_ID smallint(5) unsigned not null

ADD constraint MoviePK\_MID primary key (MovieID)

UPDATE Theater set TheaterID = ‘1’ where TheaterName = 'Wortham Theater';

UPDATE Theater set TheaterID = ‘2’ where TheaterName = 'AMC Miami 15';

UPDATE Theater set TheaterID = ‘3’ where TheaterName = AMC Theater Odessa';

UPDATE Theater set TheaterID = ‘4’ where TheaterName = 'Hawkins Southfield 18';

UPDATE Theater set TheaterID = ‘5’ where TheaterName = 'Moon Plaza Twin Theaters Pasadena';

UPDATE Movie set MovieID = ‘1’ where Movie\_Name = ‘Murder in High School Homecoming Dance’

UPDATE Movie set MovieID = ‘2’ where Movie\_Name = ‘Shark Attacks in Spring Break’

UPDATE Movie set MovieID = ‘3’ where Movie\_Name = ‘Yosemite National Park: The Beauty in Wild California’

UPDATE Movie set MovieID = ‘4’ where Movie\_Name = ‘Block Party’

UPDATE Movie set MovieID = ‘5’ where Movie\_Name = ‘Trapped in Vietnam’

UPDATE Movie set MovieID = ‘6’ where Movie\_Name = ‘The Twilight Zone in Time Machine’