drop database if exists atlmovie;

create database atlmovie;

use atlmovie;

-- All users, including employees (admins and managers), customers, and regular users

create table user (

username char(20) primary key not null,

status char(16) not null,

password char(20) not null,

firstname char(16) not null,

lastname char(16) not null

);

-- Customers have one to five credit cards

create table creditcard (

creditcardnum int(16) primary key not null,

customer char(20) not null,

foreign key (customer) references user(username)

);

-- Movie: name/releasedate combination is unique/primary key

create table movie (

movieid int primary key auto\_increment,

name char(20) not null,

releasedate date not null,

duration int not null

);

-- Company: just a list of unique company names, pre-populated

create table company(

name char(20) primary key not null

);

-- Managers are a type of user with an address, must work for a company, permitted to manage a theater

create table manager(

username char(20) primary key not null,

street char(20) not null,

city char(20) not null,

state char(2) not null,

zipcode int(5) not null,

company char(20) not null,

foreign key (company) references company(name)

);

-- Theaters are run by a manager and belong to that manager's company

create table theater(

theaterid int primary key auto\_increment,

name char(20) not null,

company char(20) not null,

manager char(20) not null,

foreign key (company) references manager(company),

foreign key (manager) references manager(username)

);

-- Movie play is one showing of one movie at one theater on one date

create table movieplay(

playid int primary key auto\_increment,

movieid int not null,

theaterid int not null,

playdate date not null,

foreign key (movieid) references movie(movieid),

foreign key (theaterid) references theater(theaterid)

);

-- Movie view is a customer's paying for a particular movie play

create table movieview(

viewid int primary key auto\_increment,

playid int not null,

creditcardnum int(16) not null,

foreign key (playid) references movieplay(playid),

foreign key (creditcardnum) references creditcard(creditcardnum)

);

-- Theater visit is a user's visit to a theater on a particular date

create table theatervisit(

visitid int primary key auto\_increment,

theaterid int not null,

username char(20) not null,

visitdate date not null,

foreign key (theaterid) references theater(theaterid),

foreign key (username) references user(username)

);

CREATE DOMAIN domain\_1 AS SMALLINT

CONSTRAINT constraint\_1 CHECK(VALUE IN 50,100,150)

DEFERRABLE INITIALLY DEFERRABLE;

-- defines a CHECK <Domain Constraint> in CREATE DOMAIN

ALTER DOMAIN domain\_1 ADD CONSTRAINT constraint\_2

CHECK(VALUE IS NOT NULL);

-- defines a CHECK <Domain Constraint> in ALTER DOMAIN

<https://crate.io/docs/sql-99/en/latest/chapters/20.html> - SQL Constraints and Assertion