**Diagram, schematic

Description automatically generated**

**MYSQL INSERT FILE CONTENTS**

create database dvdrental;

use dvdrental;

show tables;

-- ------------------ branch --------------------

create table BRANCH

(street varchar(20),

city varchar(20),

-- checks that state abbreviation is one of the US states

state varchar(2) check (state in ('AK', 'AL', 'AR', 'AZ', 'CA', 'CO', 'CT', 'DE', 'FL', 'GA', 'HI', 'IA', 'ID', 'IL', 'IN', 'KS', 'KY', 'LA', 'MA', 'MD', 'ME', 'MI', 'MN', 'MO', 'MS', 'MT', 'NC', 'ND', 'NE', 'NH', 'NJ', 'NM', 'NV', 'NY', 'OH', 'OK', 'OR', 'PA', 'RI', 'SC', 'SD', 'TN', 'TX', 'UT', 'VA', 'VT', 'WA', 'WI', 'WV', 'WY')),

zip numeric(5,0),

phone\_no numeric (12,0) not null,

branch\_no numeric(5,0), -- uniquely identifies each branch

primary key (branch\_no)

);

-- ------------------ staff --------------------

create table STAFF

(

staff\_no numeric(5,0), -- uniquely identifies each employee

branch\_no numeric(5,0), -- identifies which branch they work at

first\_name varchar(20),

last\_name varchar(20),

position varchar(20), -- position at branch

salary numeric (8,2),

primary key (staff\_no),

foreign key (branch\_no) references BRANCH(branch\_no) on delete cascade

);

-- ------------------ branch stock --------------------

create table BRANCH\_STOCK

(

catalog\_no numeric(10,0), -- uniquely identifies each item in the store

branch\_no numeric(5,0), -- identifies the branch where the stock is held

primary key(catalog\_no),

foreign key(branch\_no) references BRANCH(branch\_no) on delete cascade

);

-- ------------------ DVD --------------------

create table DVD

(

catalog\_no numeric(10,0), -- uniquely identifies DVD in store catalog

dvd\_no numeric (20,0), -- uniquely identifies each individual DVD

title varchar(50),

category varchar(10),

daily\_rental numeric(3, 2),

status numeric(1,0), -- 1 = available, 0 = checked out

director varchar(20), -- "list" of director(s) names

actors varchar(200), -- "list" of actor(s) names

primary key(catalog\_no, dvd\_no),

foreign key (catalog\_no) references BRANCH\_STOCK(catalog\_no) on delete cascade,

foreign key (dvd\_no) references COPY(dvd\_no) on delete cascade

);

-- ------------------ copy --------------------

create table COPY

(

dvd\_no numeric(20,0), -- uniquely identifies each DVD

catalog\_no numeric(10,0), -- identifies DVD within store catalog

copy\_condition varchar(200), -- any comments on the quality of the copy

primary key(dvd\_no),

foreign key(catalog\_no) references BRANCH\_STOCK(catalog\_no) on delete cascade

);

-- ------------------ rental --------------------

create table RENTAL

(

rental\_no numeric(10,0), -- uniquely identifies each rental

member\_no numeric(10,0), -- identifies member of rental

first\_name varchar(20), -- member first name

last\_name varchar(20), -- member last name

dvd\_no numeric(20,0), -- DVD being rented

title varchar(50), -- DVD title

daily\_rental numeric(3,2), -- daily rental cost of DVD

date\_rented datetime,

dete\_returned datetime,

primary key(rental\_no),

foreign key(dvd\_no) references COPY(dvd\_no) on delete cascade,

foreign key(title) references DVD(title) on delete cascade,

foreign key(daily\_rental) references DVD(daily\_rental) on delete cascade,

foreign key(member\_no) references MEMBER(member\_no) on delete cascade

);

-- ------------------ member --------------------

create table MEMBER

(

member\_no numeric(10,0), -- uniquely identifies each member

first\_name varchar(20),

last\_name varchar(20),

address varchar(100), -- address stored in one long string rather than separate variables

date\_registered date,

expiration\_date date,

current\_rentals varchar(100), -- "list" of current rentals

primary key(member\_no)

);

**Assumptions:**

* Each member is not specifically assigned to the store where they registered
* Actors and directors for each DVD copy are stored as one long string instead of a traditional “list”
* Each member can have up to 10 active rentals at a time
* No total rental cost is saved as an attribute; this can be calculated from the values already stored in the database
* The BRANCH\_STOCK table only holds the catalog\_no of each item in the store