create database 0908002640\_TinyVideo;

use 0908002640\_TinyVideo;

CREATE TABLE MEMBERSHIP(

MEM\_NUM int NOT NULL PRIMARY KEY,

MEM\_FNAME varchar(17),

MEM\_LNAME varchar(17),

MEM\_STREET varchar(50),

MEM\_CITY varchar(40),

MEM\_STATE CHAR(2),

MEM\_ZIP int(5),

MEM\_BALANCE int(2)

);

CREATE TABLE RENTAL(

RENT\_NUM int NOT NULL PRIMARY KEY,

RENT\_DATE date,

MEM\_NUM INT,

FOREIGN KEY (MEM\_NUM) REFERENCES MEMBERSHIP (MEM\_NUM)

);

CREATE TABLE PRICE(

PRICE\_CODE int NOT NULL PRIMARY KEY,

PRICE\_DESCRIPTION varchar(30),

PRICE\_RENTFEE double,

PRICE\_DAILYLATEFEE double

);

CREATE TABLE MOVIE(

MOVIE\_NUM int NOT NULL PRIMARY KEY,

MOVIE\_TITLE varchar(60),

MOVIE\_YEAR int(4),

MOVIE\_COST double,

MOVIE\_GENRE varchar(30),

PRICE\_CODE int,

FOREIGN KEY (PRICE\_CODE) REFERENCES PRICE (PRICE\_CODE)

);

CREATE TABLE VIDEO(

VID\_NUM int NOT NULL PRIMARY KEY,

VID\_INDATE date,

MOVIE\_NUM int,

FOREIGN KEY (MOVIE\_NUM) REFERENCES MOVIE (MOVIE\_NUM)

);

CREATE TABLE DETAILRENTAL(

RENT\_NUM int,

VID\_NUM int,

FOREIGN KEY (RENT\_NUM) REFERENCES RENTAL (RENT\_NUM),

FOREIGN KEY (VID\_NUM) REFERENCES VIDEO (VID\_NUM),

DETAIL\_FEE double,

DETAIL\_DUEDATE date,

DETAIL\_RETURNDATE date,

DETAIL\_DAILYLATEFEE int,

PRIMARY KEY (RENT\_NUM, VID\_NUM)

);

/\*2\*/

INSERT INTO MEMBERSHIP

values

(102, 'Tami', 'Dawson', '2632 Takli Circle', 'Norene', 'TN', 37136, 11),

(103, 'Curt', 'Knight', '4025 Cornell Court', 'Flatgap', 'KY', 41219, 6),

(104, 'Jamal', 'Melendez', '788 East 145th Avenue', 'Quebeck', 'TN', 38579, 0),

(105, 'Iva', 'Mcclain', '6045 Musket Ball Circle', 'Summit', 'KY', 42783, 15),

(106, 'Miranda', 'Parks', '4469 Maxwell Place', 'Germantown', 'TN', 38183, 0),

(107, 'Rosario', 'Elliott', '7578 Danner Avenue', 'Columbia', 'TN', 38402, 5),

(108, 'Mattie', 'Guy', '4390 Evergreen Street', 'Lily', 'Ky', 40740, 0),

(109, 'Clint', 'Ochoa', '1711 Elm Street', 'Greeneville', 'TN', 37745, 10),

(110, 'Lewis', 'Rosales', '4524 Southwind Circle', 'Counce', 'TN', '38326', 0),

(111, 'Stacy', 'Mann', '3789 East Cook Avenue', 'Murfreesboro', 'TN', 37132, 8),

(112, 'Luis', 'Trujillo', '7267 Melvin Avenue', 'Heiskell', 'TN', 37754, 3),

(113, 'Minnie', 'Gonzales', '6430 Vasili Drive', 'Williston', 'TN', 38076, 0);

INSERT INTO PRICE

values

(1,"Standard",2,1),

(2,"New Release",3.5,3),

(3,"Discount",1.5,1),

(4,"Weekly Special",1,.5);

INSERT INTO MOVIE

values

(1234,"The Cesar Family Christmas",2007,39.95,"FAMILY",2),

(1235,"Smokey Mountain Wildlife",2004,59.95,"ACTION",1),

(1236,"Richard Goodhope",2008,59.95,"DRAMA",2),

(1237,"Beatnik Fever",2007,29.95,"COMEDY",2),

(1238,"Constant Companion",2008,89.95,"DRAMA",2),

(1239,"Where Hope Dies",1998,25.49,"DRAMA",3),

(1245,"Time to Burn",2005,45.49,"ACTION",1),

(1246,"What He Doesn't Know",2006,58.29,"COMEDY",1);

INSERT INTO VIDEO

values

(54321,"18-06-08",1234),

(54324,"18-06-08",1234),

(54325,"18-06-08",1234),

(34341,"22-01-07",1235),

(34342,"22-01-07",1235),

(34366,"02-03-09",1236),

(34367,"02-03-09",1236),

(34368,"02-03-09",1236),

(34369,"02-03-09",1236),

(44392,"21-10-08",1237),

(44397,"21-10-08",1237),

(59237,"14-02-09",1237),

(61388,"25-01-07",1239),

(61353,"28-01-06",1245),

(61354,"28-01-06",1245),

(61367,"30-07-08",1246),

(61369,"30-07-08",1246);

INSERT INTO RENTAL

Values (1001,"01-03-09",103),

(1002,"01-03-09",105),

(1003,"02-03-09",102),

(1004,"02-03-09",110),

(1005,"02-03-09",111),

(1006,"02-03-09",107),

(1007,"02-03-09",104),

(1008,"03-03-09",105),

(1009,"03-03-09",111);

INSERT INTO DETAILRENTAL

values

(1001,34342,2,"04-03-09","02-03-09",1),

(1001,61353,2,"04-03-09","03-03-09",1),

(1002,59237,3.5,"04-03-09","04-03-09",3),

(1003,54325,3.5,"04-03-09","09-03-09",3),

(1003,61369,2,"06-03-09","09-03-09",1),

(1003,61388,0,"06-03-09","09-03-09",1),

(1004,44392,3.5,"05-03-09","07-03-09",3),

(1004,34367,3.5,"05-03-09","07-03-09",3),

(1004,34341,2,"07-03-09","07-03-09",1),

(1005,34342,2,"07-03-09","05-03-09",1),

(1005,44397,3.5,"05-03-09","05-03-09",3),

(1006,34366,3.5,"05-03-09","04-03-09",3),

(1006,61367,2,"07-03-09",NULL,1),

(1007,34368,3.5,"05-03-09",NULL,3),

(1008,34369,3.5,"05-03-09","05-03-09",3),

(1009,54324,3.5,"05-03-09",NULL,3),

(1001,34366,3.5,"04-03-09","02-03-09",3);

/\*3\*/

select MOVIE\_TITLE,MOVIE\_YEAR,MOVIE\_COST from movie where upper(MOVIE\_TITLE) like '%HOPE%' order by MOVIE\_TITLE;

/\*4\*/

select MOVIE\_TITLE,MOVIE\_YEAR,MOVIE\_GENRE from movie where upper(MOVIE\_GENRE)="ACTION";

/\*5\*/

select movie\_num,movie\_title,movie\_cost from movie where movie\_cost>40;

/\*6\*/

select movie\_num,movie\_title,movie\_cost,movie\_genre from movie

where (MOVIE\_GENRE="ACTION" or MOVIE\_GENRE="COMEDY")

and movie\_cost < 50 order by movie\_genre;

/\*7.\*/

select movie\_num, concat(movie\_title , " (", movie\_year, ") " , movie\_genre) as "Movie Description" from movie;

/\*8\*/

select movie\_genre, count(\*) from movie

group by movie\_genre;

/\*9\*/

select round(avg(movie\_cost),4) from movie;

/\*10\*/

select movie\_genre, round(avg(movie\_cost),2) from movie

group by movie\_genre;

/\*11\*/

select movie\_title, movie\_genre, price.price\_description, price.price\_rentfee from movie

natural join price;

/\*12\*/

select movie\_genre, round(avg(price.price\_rentfee),2) from movie

natural join price

group by movie\_genre;

/\*13\*/

select movie\_title, movie\_year, round((movie\_cost/price.price\_rentfee),2) as "Breakeven Rentals" from movie

natural join price;

/\*14\*/

select movie\_title, movie\_year from movie where price\_code is not null;

/\*15\*/

select movie\_title, movie\_year, movie\_cost from movie

where movie\_cost < 49.99

and movie\_cost > 44.99;

/\*16\*/

select movie\_title,movie\_year,PRICE\_DESCRIPTION, price\_rentfee,movie\_genre from movie natural join price where upper(movie\_genre)="FAMILY" or upper(movie\_genre)="COMEDY" or upper(movie\_genre)="DRAMA";

/\*17\*/

select min(mem\_balance), max(mem\_balance), avg(mem\_balance) from membership, rental

where membership.mem\_num = rental.mem\_num;

/\*18\*/

select concat(MEM\_FNAME," ",MEM\_LNAME) as "name", concat(MEM\_STREET," ",MEM\_CITY," ",MEM\_STATE," ",MEM\_ZIP) as membership\_address from membership;

/\*19\*/

select rental.rent\_num, rental.rent\_date, movie\_title, detail\_duedate, detail\_returndate from detailrental, movie, rental, video

where datediff(detail\_duedate, detail\_returndate) < 0

and movie.movie\_num = video.movie\_num

and detailrental.vid\_num = video.vid\_num

and detailrental.rent\_num = rental.rent\_num;

/\*20\*/

select rental.rent\_num, rental.rent\_date, video.vid\_num, movie\_title, detail\_duedate, detail\_returndate, detail\_fee, datediff(detail\_returndate, detail\_duedate) as days\_past\_due from detailrental, movie,rental,video

where datediff(detail\_duedate, detail\_returndate) < 0

and movie.movie\_num = video.movie\_num

and detailrental.vid\_num = video.vid\_num

and detailrental.rent\_num = rental.rent\_num;

/\*21\*/

select rental.rent\_num, rental.rent\_date, movie\_title, detail\_fee from detailrental, movie,rental,video

where datediff(detail\_duedate, detail\_returndate) >= 0

and movie.movie\_num = video.movie\_num

and detailrental.vid\_num = video.vid\_num

and detailrental.rent\_num = rental.rent\_num;

/\*22\*/

select membership.MEM\_NUM,MEM\_LNAME,MEM\_FNAME,sum(DETAIL\_FEE) from membership natural join detailrental, rental where rental.rent\_num = detailrental.rent\_num and rental.mem\_num = membership.mem\_num group by membership.mem\_num;

/\*23\*/

select MOVIE\_NUM,MOVIE\_GENRE as Genre, (select avg(MOVIE\_COST) from movie where movie\_genre=Genre)as Average\_Cost,MOVIE\_COST, ((movie\_cost-(select avg(MOVIE\_COST) from movie where movie\_genre=Genre))/(select avg(MOVIE\_COST) from movie where movie\_genre=Genre)\*100)as Percent from movie;

/\*24\*/

/\*HAD to add int(4) and not int(3) because there are 4 digit numbers\*/

alter table detailrental

add DETAIL\_DAYSLATE int(4) GENERATED ALWAYS AS (datediff(detail\_returndate, detail\_duedate));

/\*25\*/

ALTER table video ADD VID\_STATUS enum('IN','OUT','LOST') not null default "IN";

/\*26\*/

update video set vid\_status='OUT' where vid\_num in(select vid\_num from detailrental where DETAIL\_RETURNDATE is null);

/\*27\*/

alter table price add price\_rentdays int(2) default 3 not null;

/\*29 a\*/  
delimiter //

CREATE TRIGGER TRG\_MEM\_BALANCE  
AFTER UPDATE of DETAIL\_DUEDATE, DETAIL\_RETURNDATE  
ON DETAILRENTAL FOR EACH ROW DECLARE PRIOR\_LATEFEE NUMBER;  
 NEW\_LATEFEE NUMBER;  
 UPDATE\_AMOUNT NUMBER;  
 RENTAL\_MEMBER RENTAL.MEM\_NUM%TYPE;  
 BEGIN PRIOR\_LATEFEE := :OLD.DETAIL\_DAYSLATE \* :OLD.DETAIL\_DAILYLATEFEE;

IF PRIOR\_LATEFEE IS NULL THEN

PRIOR\_LATEFEE := 0;

END IF;  
 NEW\_LATEFEE := :NEW.DETAIL\_DAYSLATE \* :NEW.DETAIL\_DAILYLATEFEE;  
 IF NEW\_LATEFEE IS NULL THEN

NEW\_LATEFEE := 0;

END IF;

UPDATE\_AMOUNT := NEW\_LATEFEE - PRIOR\_LATEFEE;

IF UPDATE\_AMOUNT <> 0 THEN

SELECT MEM\_NUM INTO RENTAL\_MEMBER FROM RENTAL WHERE RENT\_NUM = :NEW.RENT\_NUM;

UPDATE MEMBERSHIP

SET MEM\_BALANCE = MEM\_BALANCE + UPDATE\_AMOUNT

WHERE MEM\_NUM = RENTAL\_MEMBER;

END IF;//

/\*b\*/

/\*c\*/

/\*d\*/