DATABASE MANAGEMENT SYSTEMS PROJECT

PART 2

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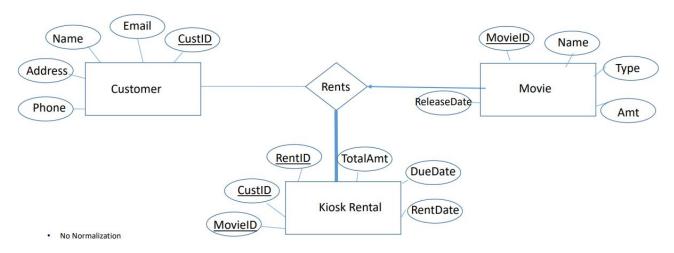
"On my honor, as a Mississippi State University student, I have neither given nor received unauthorized assistance on this academic work."

CSE-4503 - Database Management Systems
Class Section 01
Leann M. Markham
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Video Rental Kiosk

1. Entity-Relationship Diagram

Video Rental Kiosk ERD Project Part 1



2. Relational Schema

Kiosk_rental(rent_id:integer, cust_id: integer, movie_id:integer, TotalAmt:integer, DueDate:date, RentDate:date)

Customer_rental(rent_id:integer, cust_id: integer)

Rental_dates(rent_id:integer, RentDate:date)

Total amounts(rent id:integer, TotalAmt:integer)

Rent due date(Rent date:date, Due date:date)

Movie(movie id:integer, movie name:varchar, movie type:integer, Amt:integer)

Movie data(Movie id:integer, Movie name:varchar, Release date:date, Movie type:integer)

Movie cost(Type:integer, Amt:integer, Release date:date)

Customer(cust id:integer, email:varchar, cust name:varchar, address:varchar, phone:integer)

Cust names(Cust id:integer, Cust name:varchar)

Cust details(Cust name:varchar, Phone:integer, Email:varchar, Address:varchar)

3. SQL CREATE TABLE Statements

```
Create Database rents;
/*Kiosk Rental */
Create table kiosk rental (
rent id int NOT NULL,
cust id int NOT NULL,
movie id int NOT NULL,
TotalAmt int,
DueDate date NOT NULL,
RentDate date NOT NULL,
UNIQUE (rent id, cust id),
PRIMARY KEY (rent id, cust id, movie id),
FOREIGN KEY(cust id) REFERENCES Customer(cust id),
FOREIGN KEY(movie id) REFERENCES movie(movie id));
Create table customer rental (
rent id int NOT NULL,
cust id int NOT NULL,
Primary Key (rent id),
Foreign key(rent id) REFERENCES kiosk rental(rent id),
Foreign key(cust id) References Customer(cust id));
Create table rental dates(
rent id int NOT NULL,
RentDate date Not NULL,
Primary key (rent id),
Foreign key (rent id) References kiosk rental(rent id),
foreign key (RentDate) references kiosk rental(RentDate));
```

```
Create table total amounts (
rent id int Not null,
TotalAmt int.
Primary key (rent id),
foreign key (rent id) references kiosk rental(rent id),
foreign key (TotalAmt) references kiosk rental(TotalAmt));
Create table rent due date (
Rent date date not NULL,
Due date date not null,
Primary Key (Rent date),
Foreign Key (Rent date) references kiosk rental(Rent date),
Foreign Key (Due date) references kiosk rental(Due date));
/* movie */
Create table movie (
movie id int NOT NULL,
movie name varchar(20), movie type int, Amt int,
Unique (movie id), Primary Key (movie id));
Create table movie data (
Movie_id int Not null,
Movie name varchar(20),
Release date date,
Movie type int,
Primary Key (movie id),
Foreign key (movie id) references movie(movie id),
Foreign key(movie name) references movie(movie name),
Foreign key (release date) references movie(release date),
Foreign key(movie type) references movie(movie type));
Create table movie cost (
Type int not null,
Amt int,
Release date date,
Primary key (type),
```

```
Foreign key (type) references movie(Type),
Foreign key (amt) references movie(amt),
Foreign key(release date) references movie(release date));
/*customer */
Create Table customer (
cust id int Not Null,
email varchar(20),
cust name varchar(20),
address varchar(20),
phone int,
UNIQUE (cust id, email, phone), Primary Key (cust id));
Create table cust names (
Cust id int not null,
Cust name varchar(20),
Primary key (cust id),
Foreign key (cust id) references customer(cust id),
Foreign key(cust name) references customer(cust name));
Create table cust details (
Cust name varchar(20) not null,
Phone int,
Email varchar(20),
Address varchar(20),
Primary key (cust name),
Foreign key (cust name) references customer(cust name),
Foreign key (phone) references customer (phone),
Foreign key (email) references customer(email),
Foreign key (address) references customer(address));
```

References

Gehrke, Johannes. (2002). *Database Management Systems*, 3rd Edition. New York, NY: McGraw-Hill.