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Assignment 3

The reservation table includes the reservation, screening, employee, reservation type, reservation paid, movie, seat, auditorium, customer, and seat reservation information. The attributes included relationships between other tables. There are 7 foreign keys which include screeningID, ReservationID, MovieID, SeatID, AuditoriumID, CustomerID, and SeatReservationID. The primary Key is ReservationID. The table has a relationship with the Screening, ReservationType, Customer, and SeatReservation tables. The relationship with Reservation and Screening and ReservationType and Customer, SeatReservation is one to many.

The customer table includes the customer, customer first name, customer last name, and reservation information. There are 1 foreign key which is the ReservationID. The primary key is the CustomerID. The relationship the table has is with the reservation table which is a one to many.

The reservation type table includes the reservation type and reservation information. There are 1 foreign key which is the ReservationID and one primary key which is ReservationTypeID. The relationship to the table is between the reservation table and they have a many to one relationship.

The SeatReservation table includes seat reservation, seat, reservation, and screening information. There are 3 foreign keys which include SeatID, ReservationID, and ScreeningID. The primary key is SeatReservationID. The relationships are between reservation which they have a one to many and another relationship between seat which has a one to many.

The Seat table has seat, seat rows, seat number, auditorium, and reservation. The table has 2 foreign keys which are AuditoriumID and ReservationID. The priority key is SeatID. The table has a relationship with SeatReservation by having a one to many. Another relationship is between Auditorium which they have a one-to-many relationship.

The Auditorium table includes auditorium, auditorium seats, movie, screening, reservation, seat, and employee information. The table has 5 foreign keys which are MovieID, ScreeningID, ReservationID, SeatID, and EmployeeID. The primary key is AuditoriumID. The table has three relationships one with the seat table which has a one to many. Another relationship with Employee by having a one to many and lastly, one with Screening which is a one to many.

The Employee table includes employee, employee first name, employee last name, employee date of birth, and employee position. The table has zero foreign keys and one primary key which is with Auditorium and they have a one-to-many relationship.

The Screening table includes screening, movie, and auditorium ID’s. The table has 2 foreign keys which are MovieID and AuditoriumID. The primary key is ScreeningID. The table has 3 relationships, the first one with Auditorium and they have a one-to-many relationship. Another relationship is between Reservation and they have one to many. The last relationship is between Movie and they have a one to many.

The last table is the Movie table which includes movie, movie title, movie director, movie cast, movie description, movie duration, and screening. The table has 1 foreign key and it’s the ScreeningID and it also has one primary key which is MovieID. The table has one relationship between Screening and they have a one to many.