**CASE STUDY (UNOX)**

**a. Entities:**

1. Movie

2. Screen

3. Show

4. User

5. Booking

6. Review

7. Reviewer

**b. relationships:**

1. Movie is shown in Show

2. Show takes place in Screen

3. User makes Booking

4. Movie has Review

5. Review is written by Reviewer

**c. Cardinalities:**

1. One-to-Many: Movie to Show, Show to Booking, Movie to Review, Review to Reviewer

2. Many-to-One: Show to Screen, Booking to User

3. Many-to-Many: User to Booking (assuming a user can book multiple tickets)

**d. Participation Constraints:**

1. Movie must be shown in at least one Show

2. Show must take place in a Screen

3. User is not required to make a Booking (partial participation)

4. Booking must be associated with a User

5. Movie can have zero to many Reviews

6. Review must be written by a Reviewer

**e. Keys for Entities:**

1. Movie: Title

2. Screen: Screen ID

3. Show: Show ID

4. User: User ID

5. Booking: Booking ID

6. Review: Review ID

7. Reviewer: Reviewer ID

**f. Attributes:**

1. Movie: Genre, Rating, Status, Poster Image, Star Cast

2. Screen: Type (Gold, Silver, Iron), Seating Capacity

3. Show: Time, Date

4. User: Name, Phone Number

5. Booking: Number of Tickets, Total Cost, Date

6. Review: Content, Date and Time

7. Reviewer: Name