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CS 332

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**Project 2**

**Summary of improvement**

I added all the relation names to all the whole part relations along with the sub-venue class called Complex Venue. I also added several components to the Complex Venue class such as Carnegie Hall and Lincoln Center.

**Associate Relation Description**

Performs (Performer, Event) – I added the associate relation between my performer and event class called performs with multiplicity of 0..\* to 1..\* which means that there could be 0 or many performers for 1 or many event since not all events needed performer such as movies.

Holds (Venue, Event) – I added associate relation between my Venue and Event class called holds with multiplicity of 1 to 0..\* which means 1 Venue can hold 0 or many events since it is not necessary to have event inside venue at all time.

Ticket(CustomerAccount, Seat, Event) – I made 2 associate relations between Customer account with seat and seat with event. The first associate relation is called purchaseTicket for CustomerAccount and seat with multiplicity of 1..\* to 1..\* seats which means 1 or more accounts can purchase ticket for 1 or more seats. The second associate relation is called event seat between seat and events with multiplicity of 1..\* to 1..\* with 1 or more events can have 1 or more seats.

Price(Seat, Price, Event) – I made 2 associate relations between between seat and price and price and event. First relation between seat and price is called seatPrice with multiplicity 1 to 1 since were making the assumption that all seats have uniform price. Second relation is called eventPrice between price and events with multiplicity of 1..\* to 1..\* which means 1 or many events can have same or many different prices.

Available(Seat, Event) – I made an associate relation between seat and event called seatAvailable with multiplicity of 1..\* to 0..\* which means 1 or many events can 0 or many seats available, 0 because if all the seats are purchased.