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CS3330

Project One:

*2. Defining and Organizing the Data:*

Possible Entities:

1. Stadium
2. Event
3. Parking lot
4. Parking space
5. Employee Information
6. Vehicle Info
7. Ticket Details (aka did they for a parking spot?)
8. Work Schedule
9. Allocation

Possible Relationships:

1. Stadium and Event, (1: 1) *the stadium can only hold one event at a time.*
2. Stadium and Parking Lot (1: n) *one stadium can have many parking lots.*
3. Parking Lot and Spaces (1: n) *a parking lot has many spaces.*
4. Parking lot and Employee (1: n) *a parking lot will have many employees working.*
5. Vehicle and Ticket Details (1:1) *a car will be associated to one person’s ticket.*
6. Employee and Work Schedule (n: n) *many employees can have many schedules.*
7. Event and Tickets (1: n) *an event will sell many tickets.*
8. Event and Stadium (n: 1) *many events can be held at one stadium.*
9. Parking Lot and Allocation (1: n) *a parking lot will have many allocations.*
10. Employee and allocation (n : n) *many employees will allocate many spots).*

*3. Define the attributes:*

**Parking Lot:**

* LotID, int, primary key
* NumberOfSpots, int,
* Location, int, foreign key from stadium.

**Parking Spot:**

* SpotNumber, int, primary key
* LotID, int, foreign key to parking lot
* isOpen, bool
* isDisabledParking, bool

**Stadium:**

* StadiumID, int, primary key
* Name, varchar
* Capacity, int

**Event:**

* EventID, int, primary key
* Total people, int
* Date
* Name of the event, varchar

**Ticket:**

* Ticketnumber, int, primary key
* EventID, int, foreign key
* Stadium ID, int, foreign key
* LotID, int, foreign key

**Employee:**

* EmployeeID number, int, primary key,
* Name, varchar

**Schedule:**

* EventID, forgien key
* EmployeeID, foreign key
* LotID, foreign key

**Vehicle:**

* Licence Plate, varchar, primary key
* Vehicle type
* TicketID, foreign key

**Allocation:**

* LotId, foreign key
* spotID, foreign key
* employeeId, foreign key
* licence plate, foreign key.