Entity Associations

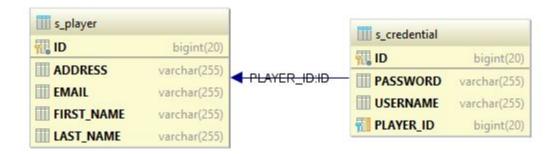
Entity Associations

- Reference from one entity to another
- Associations / Relationships
- Source Object / Target Object
- Owning Side / Inverse Side
- Unidirectional / Bidirectional

Entity Associations Types

- @OneToOne
 - o Credentials Player
- @OneToMany
 - o Team Player
- @ManyToOne
 - o Player Team
- @ManyToMany
 - o Player Skill

@OneToOne



@OneToOne

- Unidirectional
 - Source / Owning Entity the side holding foreign key

```
@OneToOne(cascade = CascadeType.ALL)
@JoinColumn(name = "PLAYER_ID", referencedColumnName = "ID")
private Player player;
```

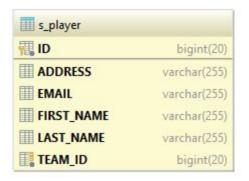
- Bidirectional reference the owning entity, from the non-owning entity
 - inverse side

```
@OneToOne (mappedBy = "player")
private Credentials credentials;
```

- o no join column on inverse side
- no cascade on both sides
- manage inverse side of relationship

@OneToMany

Unidirectional





@OneToMany

- Unidirectional
 - Source / Owning Entity the side holding foreign key

```
@OneToMany(cascade = CascadeType.ALL)
@JoinColumn(name = "TEAM_ID", referencedColumnName = "ID", nullable = false)
private List<Player> players = new ArrayList<>();
```

- Foreign key is in Player but no inverse relation
- o nullable = false, Let hibernate know that an ID from Team entity should be used

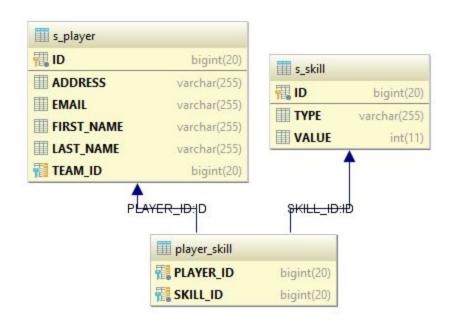
@ManyToOne

- Bidirectional reference the owning entity, from the non-owning entity
 - o inverse side:

```
@ManyToOne(cascade = CascadeType.ALL)
@JoinColumn(name = "TEAM_ID", referencedColumnName = "ID")
private Team team;
```

we move the @JoinColumn on the owning side

@JoinTable



@JoinTable

Optional @OneToMany

@ManyToOne

Unidirectional

Bidirectional

```
@ManyToMany(mappedBy = "skills")
private List<Player> players = new ArrayList<>();
```