



CS544 EA

Hibernate

Element Collections

# Element Collections

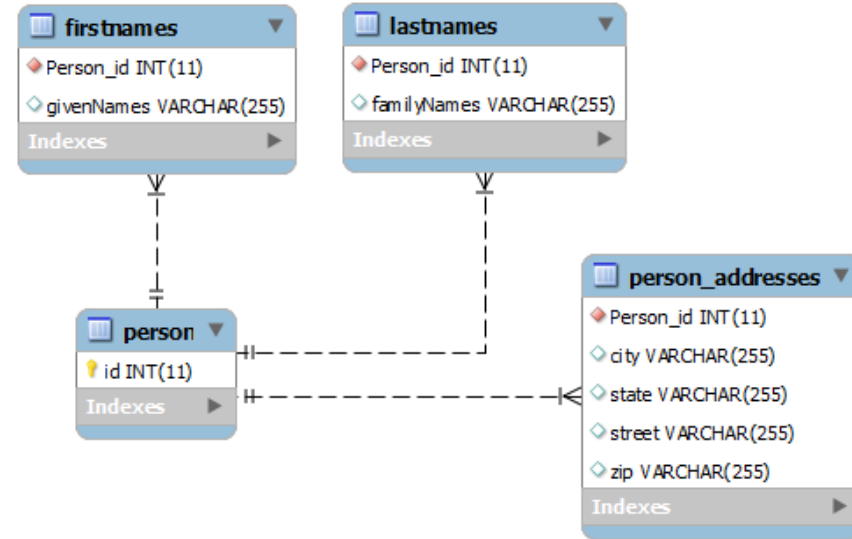
- To map **collections of primitive values**
  - Or of embeddable classes (discussed later)
- Does not make sense from OO perspective
  - Still good to know about

# @ElementCollection

```
@Entity
public class Person {
    @Id @GeneratedValue
    private int id;
    @ElementCollection
    @CollectionTable(name = "firstNames")
    private List<String> givenNames = new ArrayList<>();
    @ElementCollection
    @CollectionTable(name = "lastNames")
    private List<String> familyNames = new ArrayList<>();
    @ElementCollection
    private List<Address> addresses = new ArrayList<>();
    ...
}
```

Optional @CollectionTable:  
to specify table name

Default table name is:  
Classname\_propertyname



# Map

- Maps need a key column
  - Here Pet is a @Embeddable class (more on this later)

```
@Entity
public class Person {
    @Id @GeneratedValue
    private int id;
    private String name;
    @ElementCollection
    @MapKeyColumn(name = "name")
    private Map<String, Pet> Pets = new HashMap<>();
    ...
}
```

Optional: specify the column name.  
Default name is: propertyname\_KEY

```
@Embeddable
public class Pet {
    private int age;
    private String species;
    ...
}
```

The diagram shows a table named 'person\_pets' with four columns: 'Person\_id' (INT(11), primary key), 'age' (INT(11)), 'species' (VARCHAR(255)), and 'pets\_KEY' (VARCHAR(255), primary key). Below the columns is a section labeled 'Indexes' with a right-pointing arrow.

person_pets	
Person_id	INT(11)
age	INT(11)
species	VARCHAR(255)
pets_KEY	VARCHAR(255)

Indexes