



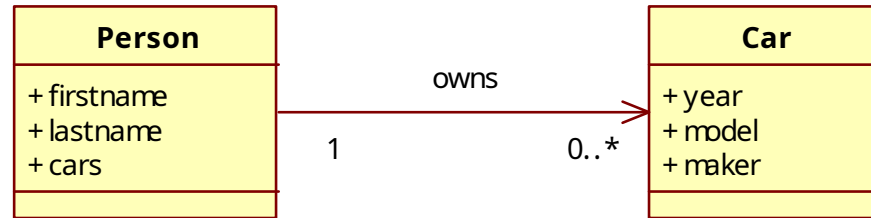
CS544 EA

# Hibernate

Association: OneToMany

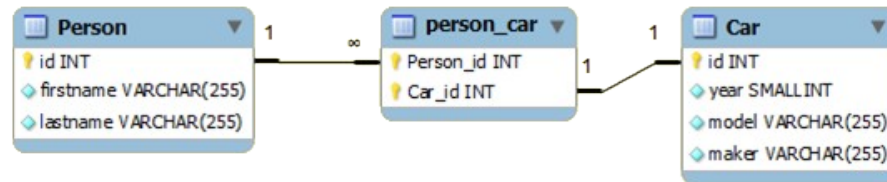
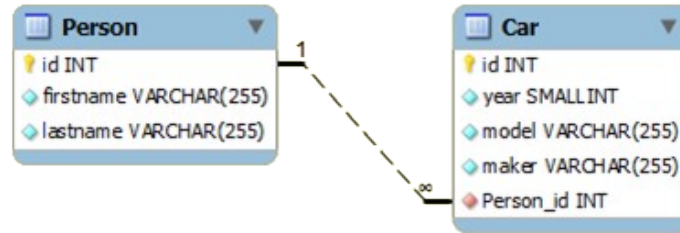
# OneToMany

- OO:



- Relational

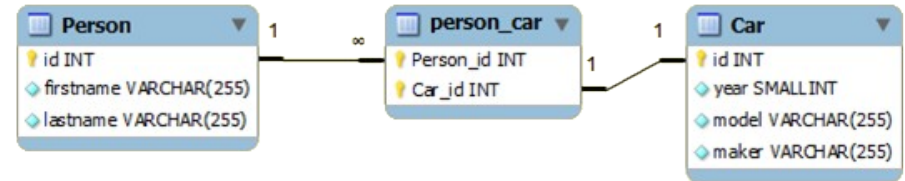
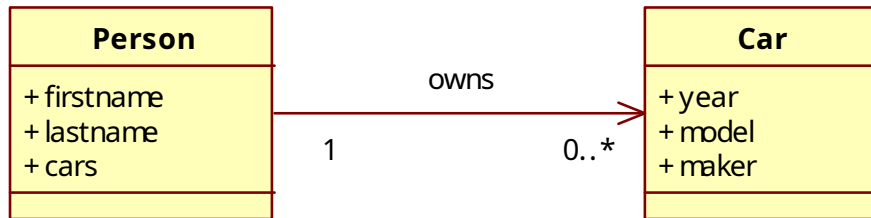
- Again 2 options:



**Default**  
is Join Table!

# Why Default Join Table?

- **Uni-direct** OneToMany defaults to join table
  - OO: The many side **should not** have a reference
  - Relational: FK (like a ref) is **on many side**
    - Is it possible to have FK on other side?
    - Join Table only solution to this problem!



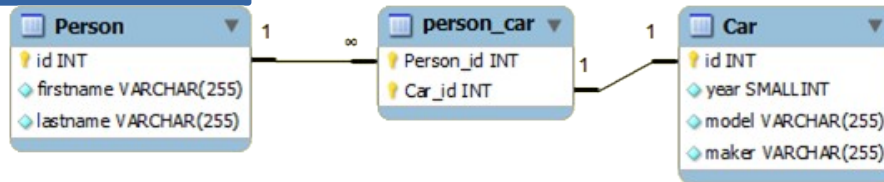
# Uni-direct OneToMany

```
@Entity
public class Person {
    @Id
    @GeneratedValue
    private Long id;
    private String firstname;
    private String lastname;
    @OneToMany
    private List<Car> cars =
        new ArrayList<>();
}
```

```
@Entity
public class Car {
    @Id
    @GeneratedValue
    private Long id;
    private short year;
    private String model;
    private String maker;
    ...
}
```

Makes Join Table!

@JoinTable can be added to change table and column names



PERSON table

ID	FIRSTNAME	LASTNAME
1	Frank	Brown

PERSON\_CAR table

PERSON_ID	CAR_ID
1	1
1	2

CAR table

ID	MAKER	MODEL	YEAR
1	Honda	Acord	1996
2	Volvo	S80	1999

# JoinColumn

- Does not match the spirit of Uni-Directional
  - Does work when specified

```
@Entity
public class Person {
    @Id
    @GeneratedValue
    private Long id;
    private String firstname;
    private String lastname;
    @OneToMany
    @JoinColumn
    private List<Car> cars =
        new ArrayList<>();
    ...
}
```

**@JoinColumn**  
name defaults to:  
cars\_id

... PERSON table

id	firstname	lastname
1	Frank	Brown

```
@Entity
public class Car {
    @Id
    @GeneratedValue
    private Long id;
    private short year;
    private String model;
    private String maker;
    ...
}
```

CAR table

id	maker	model	year	cars_id
1	Honda	Accord	1996	1
2	Volvo	S80	1999	1

