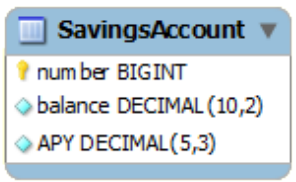
CS544 EA

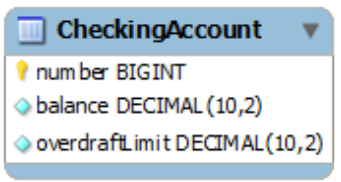
Hibernate

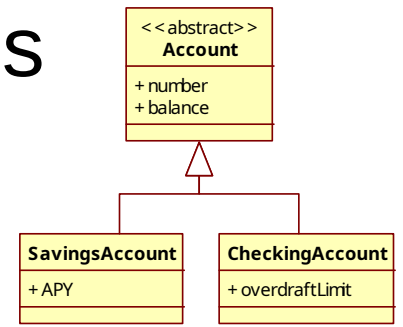
Inheritance: Mapped Super Class

Mapped Super Class

- The annotation @MappedSuperClass does not provide a strategy for inheritance.
  - Rather it is a strategy for code re-use
  - With it inheritance only exists in the object model
- Generated Tables are similar to Table Per Class with an abstract super class







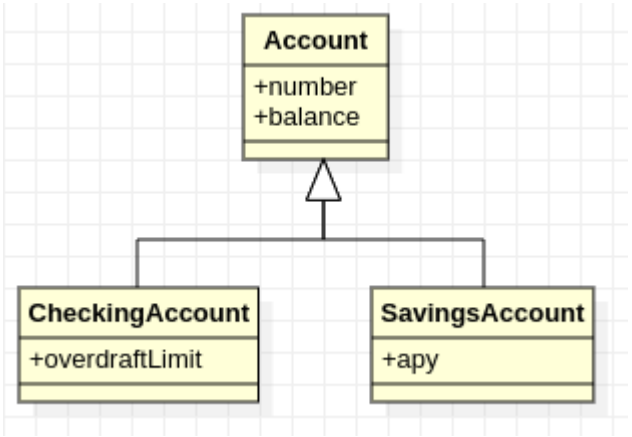
Super Class is not an Entity

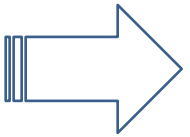
No @Entity annotation

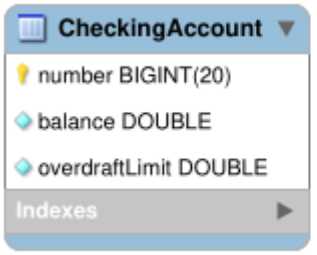
```
@MappedSuperClass
public abstract class Account {
	@Id
	@GeneratedValue
	private Long number;
	private double balance;
```

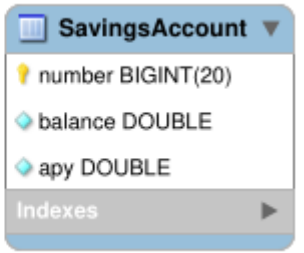
```
@Entity
public class SavingsAccount extends Account {
	private double APY;
```

```
@Entity
public class CheckingAccount extends Account {
	private double overdraftLimit;
```









No Polymorphic Queries

- As the super class is not an entity
  - There is no inheritance in the data model
  - Just 2 entities that happen to share common parts
  - It is **impossible to do polymorphic** queries

- Trying to do so generates an exception
  - QuerySyntaxException: Account is not mapped

Dubious Use

- It is not good to use inheritance for code reuse
- Having inheritance in the object model but not in the data model is strange
  - The point of mapping is to remove differences
- Therefore I recommend to **avoid using** the @MappedSuperClass annotation

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