



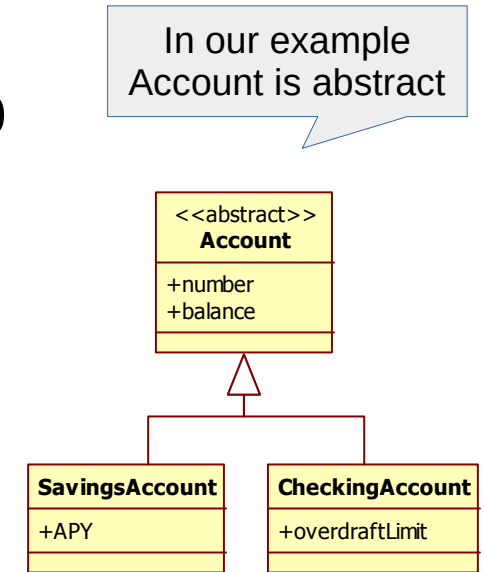
CS544 EA

# Hibernate

## Inheritance

# Inheritance

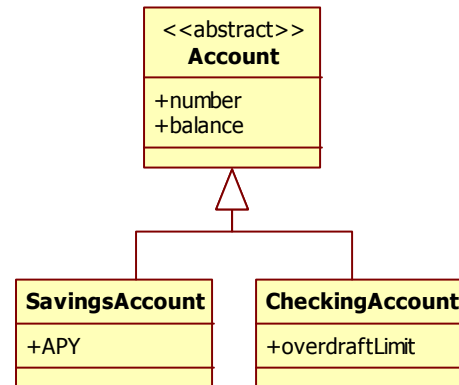
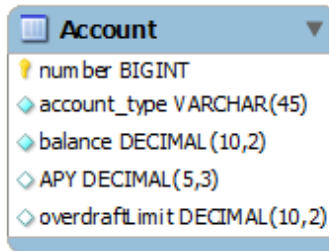
- With Inheritance a class can extend another class
  - Inheriting its properties and methods
  - Often referred to as an 'IS-A' relationship
- Relational **does not have** inheritance
  - There are 3 ways to emulate it



# Emulate Inheritance

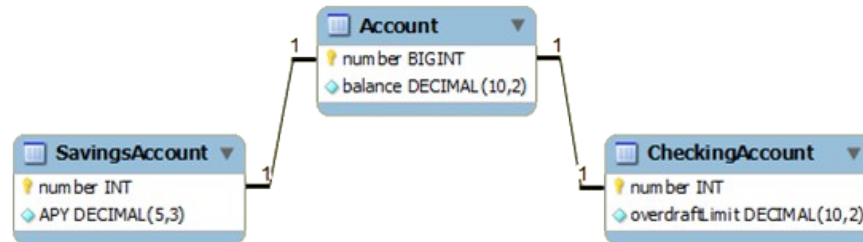
- **Single Table** per Hierarchy

- De-normalized schema
- Fast DB operations



- **Joined** Tables

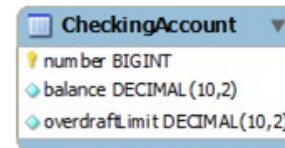
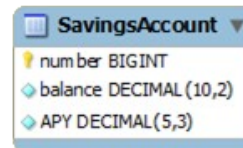
- Normalized schema
- Bit slower operations



- **Table per Concrete Class**

- Uses UNION instead of JOIN
- All needed columns in each

JPA does not require implementers to provide this strategy



# Polymorphism

- Polymorphism is the ability of a **subtype** to appear and behave **like its super type**
- This enables a person to have a list of account references, which can be any type of account
- A polymorphic query is a query for all objects in a hierarchy, independent of subtype

