

CS544 EA Hibernate

Inheritance: Table Per Concrete Class

Table per Concrete

- Creates a table for each concrete class.
 - (each class that is not abstract)
 - Sublcass tables include all superclass properties
 - Polymorphic queries use UNION operator

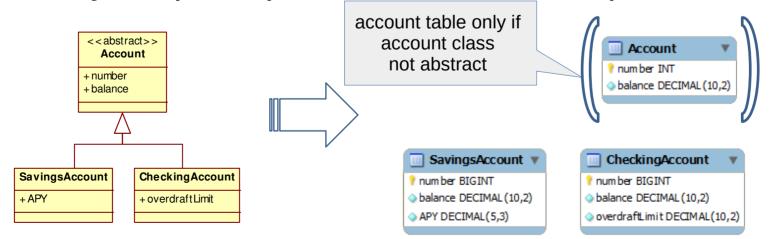


Table per Concrete in Action

SavingsAccount

NUMBER	BALANCE	APY
2	100	2.3

CheckingAccount

NUMBER	BALANCE	OVERDRAFTLIMIT
1	500	200
3	23.5	0

- Very efficient non-polymorphic
- Okay with polymorphic queries
- Cannot use identity column generation
- * JPA does not require it. Some poly issues.

SQL for Table per Concrete

```
select
     account0_.number as number0_,
     account0_.balance as balance0_,
     account0 .owner id as owner3 0 .
     account0_.overdraftLimit as overdraf1_1_,
    account0_.APY as APY^2_.
    accounta clazz as clazz
from
     ( select
         number,
         balance.
         owner_id,
         overdraftLimit
         cast(null as int) as APY,
         1 as clazz
     from
         CheckingAccount
     union
     all select
         number.
         balance.
         owner_id,
         cast(null as int) as overdraftLimit,
         2 as clazz
     from
         SavingsAccount
  account0_
```

Discriminator column generated based on which table is currently in UNION

Table per Concrete Mapping

• No identity column, no primitives in subclasses

