CS544 EA
Hibernate

EntityManager API

EntityManager API

- Now that we know about the Entity Life Cycle we can fully understand the API
  - We'll start with a summary of the most important (non-query related) EntityManager methods
  - Then we'll go into the details of each one

Entity Manger API

Method(s)	Data Base	Persistence Context
em.persist()	Uses SQL INSERT statements to create rows in the database.	Changes entity state from Transient to Managed
em.find() em.getReference()	Uses SQL SELECT statments to retrieve rows from the database	Creates managed entities
implicit update	Uses SQL UPDATE statements to update rows in the database	Only works on managed entities
em.merge()	Uses either INSERT or UPDATE depending on the state of the object	Changes transient or detached entities to managed
em.remove()	Uses SQL DELETE statements to delete rows from the database	Changes entity state from managed to removed
em.flush() em.refresh()	explicitly pushes changes to the db, explicitly gets changes from the db,	Only works on managed entities
em.contains() em.detach() em.clear()	No database activity	checks if entity is in cache, removes entity from cache, removes all entities from cache