

CORE DATA

U of U iPhone

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WHAT IS CORE DATA?

- Core Data is not a database
- Provides object-graph management
- Provides object-graph persistence
- ...not for the faint of heart

CORE DATA 101

MANAGED OBJECT MODEL

- An object that represents your data schema
- Describes a collection of entities
- Built with a GUI!
- Represented by `NSManagedObjectModel`

PERSISTENT OBJECT STORE

- Mediator between your application and the datafile
- Can store using SQLite, Binary, XML (Mac only), and In-Memory
- Can support custom store types
- Represented by `NSPersistentStore`

PERSISTENT STORE COORDINATOR

- Your app can have multiple persistent stores
- Persistent stores are accessed via a Persistent Store Coordinator
- Ensures that objects created fit with a ManagedObjectModel
- Represented by `NSPersistentStoreCoordinator`

MANAGED OBJECT CONTEXTS

- Represents a space in which objects live
- Tied to a specific store coordinator, but not a specific store
- Manage a collection of managed objects
- Represented by `NSManagedObjectContext`

MANAGED OBJECTS

- Represents a single object in a Managed Object Context
- Implements all standard behavior required by Core Data objects
- Always associated with an entity
- Represented by `NSManagedObject`

ENTITIES

- An entity is a class
- Has attributes, relationships, and fetched properties
- The basic unit of data in Core Data
- Represented by `NSEntityDescription` and `NSManagedObject`

WHY IS CORE DATA COOL?

- It handles persistence
- It handles validation
- It handles data definition
- You build your model with a GUI!

CORE DATA 202

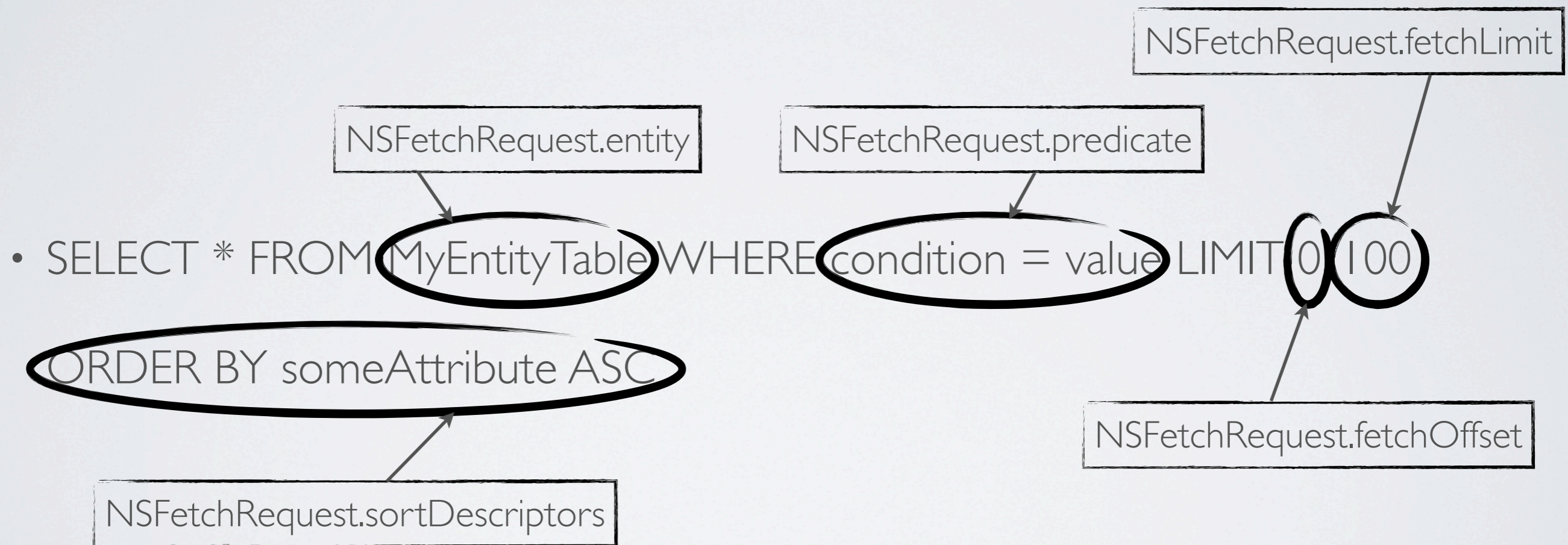
RETRIEVING INFORMATION

- We want to be able to ask for specific information
- In SQL, we build a query
- In Core Data, we build an NSFetchRequest

FETCH REQUESTS

- Object oriented way to build queries
- ManagedObjectContexts execute FetchRequests
- Will return an NSArray of NSManagedObjects

FETCH REQUESTS



DEMO!

RSS Reader