Core Data Fundamentals

Beyond the Basics: More Reading and Writing

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Introduction

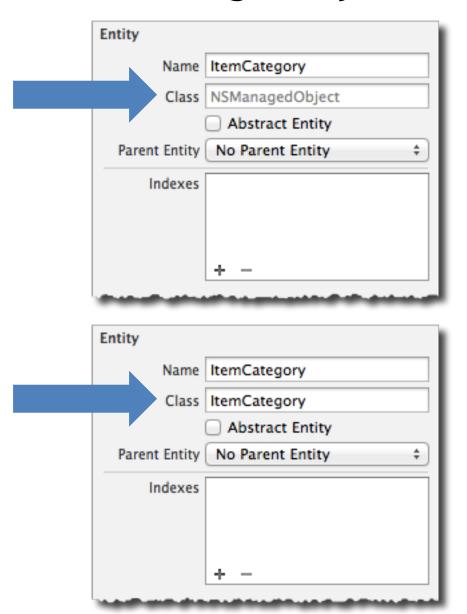
Custom Entity Classes

Entity Initialization

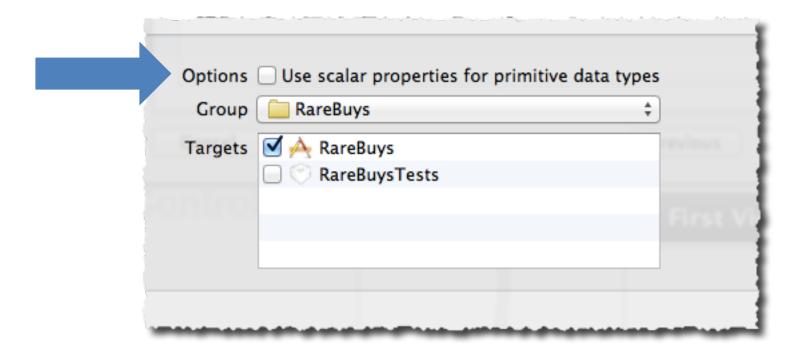
Reading and Writing Relationships

Query with NSPredicate

Custom NSManagedObject Subclasses



Properties for Primitive Types



NSManagedObject Subclass Header

```
@interface ItemCategory : NSManagedObject
@property (nonatomic, retain) NSString * categoryDesc;
@property (nonatomic, retain) NSString * categoryName;
@property (nonatomic, retain) NSSet *items;
@end
@interface ItemCategory (CoreDataGeneratedAccessors)
- (void)addItemsObject:(RareItem *)value;
- (void)removeItemsObject:(RareItem *)value;
- (void)addItems:(NSSet *)values;
- (void)removeItems:(NSSet *)values;
@end
```

NSManagedObject Subclass Implementation

@implementation ItemCategory

@dynamic categoryDesc;
@dynamic categoryName;
@dynamic items;

@end

Custom Behavior – DON'Ts

Don't override the following

- primitiveValueForKey:
- setPrimitiveValue: forKey:
- isEqual:
- □ hash
- superclass
- class
- self
- zone
- □ isProxy
- managedObjectContext
- entity
- description

Custom Behavior - DOs

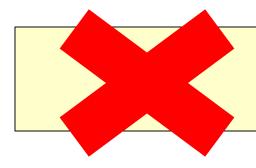
- Do implement the following
 - □ awakeFromInsert
 - awakeFromFetch

Managing To-One Relationships

```
NSManagedObject *category = [item valueForKey:@"category"];
```

```
ItemCategory *category = [item category];
```

Managing To-Many Relationships



```
NSSet *stores = [item stores];
[stores addObject:store];
```

```
NSMutableSet *stores = [item mutableSetValueForKey:@"stores"];
[stores addObject:store];
```

```
[item addStoresObject:store];
```

NSPredicate

NSPredicate *pred = [NSPredicate predicateWithFormat:@"itemName CONTAINS %@", searchString];

NSPredicate *pred = [NSPredicate predicateWithFormat:@"%K CONTAINS %@", attr, searchString];

String Comparison

- CONTAINS
- BEGINSWITH
- ENDSWITH
- □ LIKE
- MATCHES

Basic Comparison

- -
- -
- □ !=, <>
- □ BFTWFFN

Aggregates

- ANY, SOME
- □ NONE
- \Box IN

NSSortDescriptor

Fetch Request Templates



Summary

Custom Entity Classes

Entity Initialization

Reading and Writing Relationships

Query with NSPredicate