```
RealmSwift 入门
```

/// 数据库版本号

```
1、我使用的 pod 库, 所以先 pod 库安装一下, 安装完别忘了先编译一下, 不然
import 不到头文件
platform:ios, '8.0'
target 'realmExmple' do
 use_frameworks!
pod 'RealmSwift'
end
2、在 AppDelegate 的 didFinishLaunchingWithOptions 中添加如下方法,引入头
文件 import RealmSwift
/* Realm 数据库配置,用于数据库的迭代更新 */
    let schemaVersion: UInt64 =
   // 数据库工具类的版本号
   SSRealmTool.schemaVersion = schemaVersion
          let config = Realm.Configuration(schemaVersion: schemaVersion,
migrationBlock: { (migration, oldSchemaVersion) in
      /* 什么都不要做! Realm 会自行检测新增和需要移除的属性, 然后自动更新
硬盘上的数据库架构 */
     if (oldSchemaVersion < schemaVersion) {</pre>
       print("----数据库升级")
     }
   })
    Realm.Configuration.defaultConfiguration = config
    Realm.asyncOpen { (realm, error) in
     /* Realm 成功打开, 迁移已在后台线程中完成 */
     if let _ = realm {
       print("Realm 数据库配置成功")
     } else if let error = error { /* 处理打开 Realm 时所发生的错误 */
       print("Realm 数据库配置失败: \(error.localizedDescription)")
     }
    }
3、接下来开始写数据库工具类,新建一个 Swift 文件 SSRealmTool
class SSRealmTool {
```

```
static var schemaVersion: UInt64 =
  /// 唯一的数据库操作的 Realm
  static let ss_realm = realm()
  /// 获取数据库操作的 Realm
  private static func realm() -> Realm {
    // 获取数据库文件路径
    let fileURL = URL(string: NSHomeDirectory() + "/Documents/demo.realm")
    // 在 APPdelegate 中需要配置版本号时,这里也需要配置版本号
          let config = Realm.Configuration(fileURL: fileURL, schemaVersion:
schemaVersion)
    return try! Realm(configuration: config)
  }
}
4、新建两个对象 SSDog SSPerson
class SSDog: Object {
 // 主键不自增,如果要主键的话,这样写不会有重复的主键
// @objc dynamic var id = NSUUID().UUIDString
  // @objc dynamic **必须写
  @objc dynamic var name = ""
  @objc dynamic var age =
  @objc dynamic var date = Date()
  // 如果需要增加属性的话,只需要在 appdelegate 的版本号加 1 即可自动升级
// @objc dynamic var weight = 1
  /// 所属人可选
  @objc dynamic var person: SSPerson?
 // 设置主键的方法
// override static func primaryKey() -> String? {
// return "id"
// }
}
class SSPerson: Object {
  @objc dynamic var name = ""
  @objc dynamic var age =
  // 数组使用 List
  let dogs = List<SSDog>()
}
```

```
5、可以在 viewController 中调用我们的数据库了
5.1、添加一个 person
let realm = SSRealmTool.ss_realm
    let person = SSPerson()
    person.name = "person\(arc4random_uniform(1000))"
    person.age = Int(arc4random_uniform())
    for _ in ..< {
      let dog = SSDog()
      dog.name = "dog\(arc4random_uniform(1000))"
      dog.age = Int(arc4random_uniform())
      dog.person = person
      person.dogs.append(dog)
      print("添加一只狗:\(dog.name),age:\(dog.age),date:\(dog.date)")
    }
    try! realm.write {
      realm.add(person)
      print("添加一个人:\(person.name), 年龄:\(person.age)")
    }
5.2、查询
let realm = SSRealmTool.ss_realm
    print("总共有\(realm.objects(SSPerson.self).count)位人")
    print("总共有\(realm.objects(SSDog.self).count) 只狗")
                   if realm.objects(SSDog.self).count ==
                                                                       Ш
realm.objects(SSPerson.self).count == {
      return
    }
    let dogs = realm.objects(SSDog.self).filter("age <= 5")</pre>
    for dog in dogs {
                    print("---查询狗:\(dog.name), age:\(dog.age), 主人是: \
(dog.person?.name ?? "无人")")
    }
    print("-----")
let persons = realm.objects(SSPerson.self).filter("age <= 10")</pre>
    for person in persons {
      print("---查询 name:\(person.name), 有\(person.dogs.count) 只狗")
      print("-----每个人下面的狗-----")
      let someDogs = person.dogs.filter("age <= 5")</pre>
```

```
for someDog in someDogs {
           print("---查询狗:\(someDog.name), age:\(someDog.age), 主人是: \
(someDog.person?.name ?? "无人")")
      }
    }
5.3、更新
let realm = SSRealmTool.ss_realm
    let dogs = realm.objects(SSDog.self).filter("age > 5")
    for dog in dogs {
      try! realm.write {
         print("---更新前 name:\(dog.name), age:\(dog.age)")
         dog.name += "修改"
          realm.add(dog, update: true) // 这需要主键
//
      }
    }
    let dogs2 = realm.objects(SSDog.self).filter("age > 5")
    for dog in dogs2 {
      print("---更新后 name:\(dog.name), age:\(dog.age)")
    }
5.4、删除
let realm = SSRealmTool.ss_realm
    let person = SSPerson()
    person.name = "person\(arc4random_uniform(1000))"
    person.age = Int(arc4random_uniform())
    for _ in ..< {
      let dog = SSDog()
      dog.name = "dog\(arc4random_uniform(1000))"
      dog.age = Int(arc4random_uniform())
      dog.person = person
      person.dogs.append(dog)
      print("添加一只狗:\(dog.name),age:\(dog.age),date:\(dog.date)")
    }
try! realm.write {
      realm.add(person)
      print("添加一个人:\(person.name), 年龄:\(person.age)")
```