

hello

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architect

Database

Mobile Database



Core Data





realm

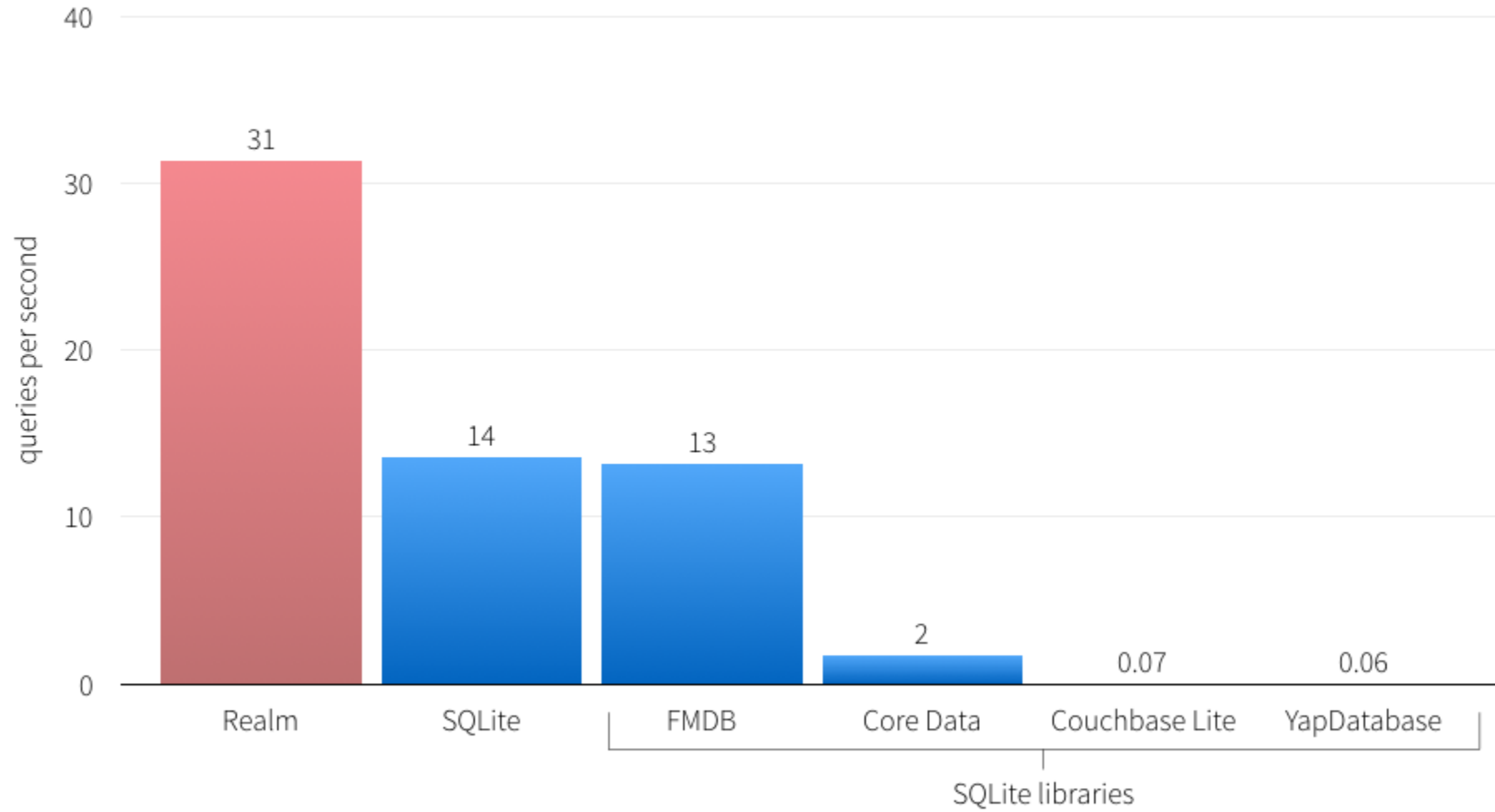


What is Realm?

Benchmark

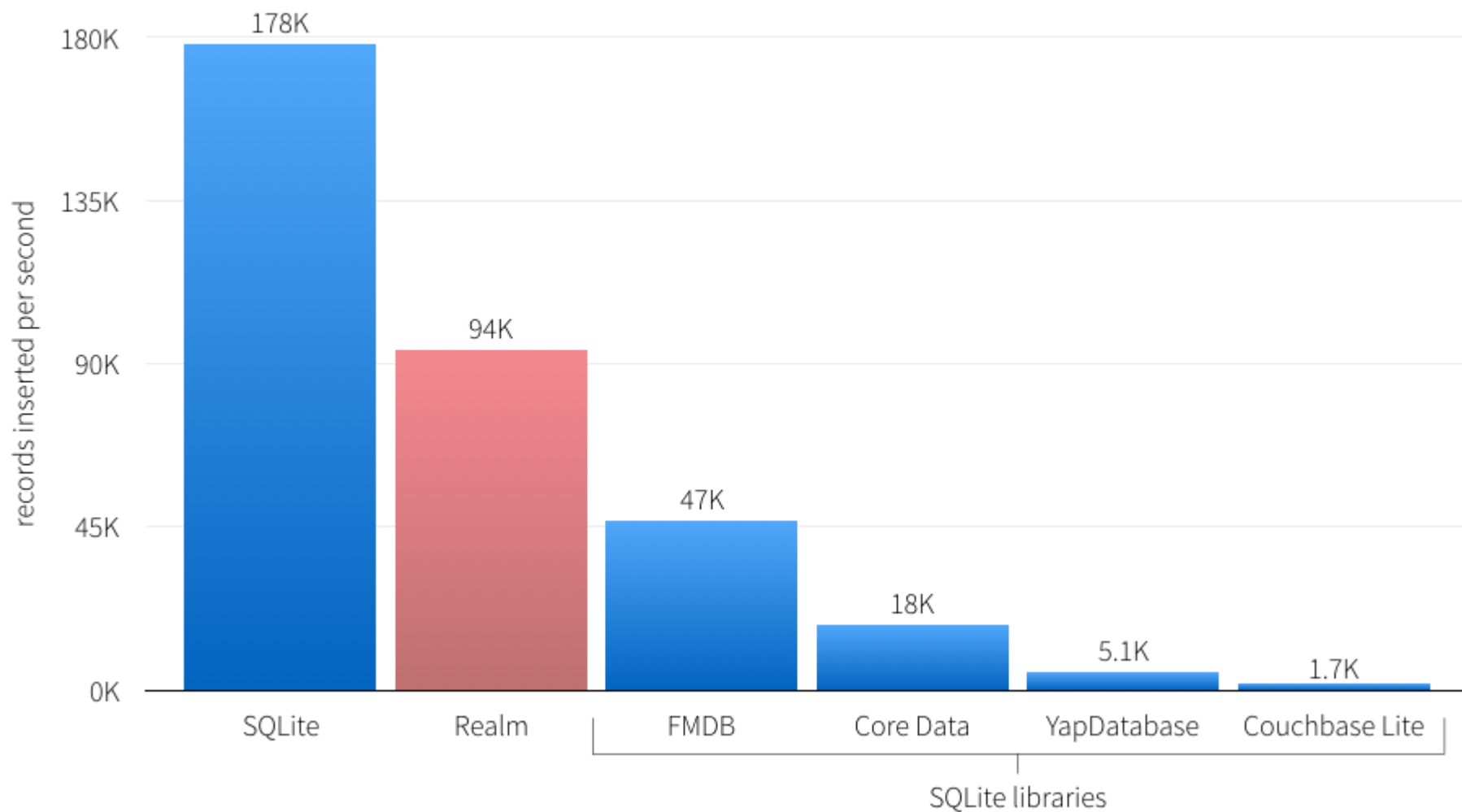
Queries

Iterate over all records matching a query (higher is better)



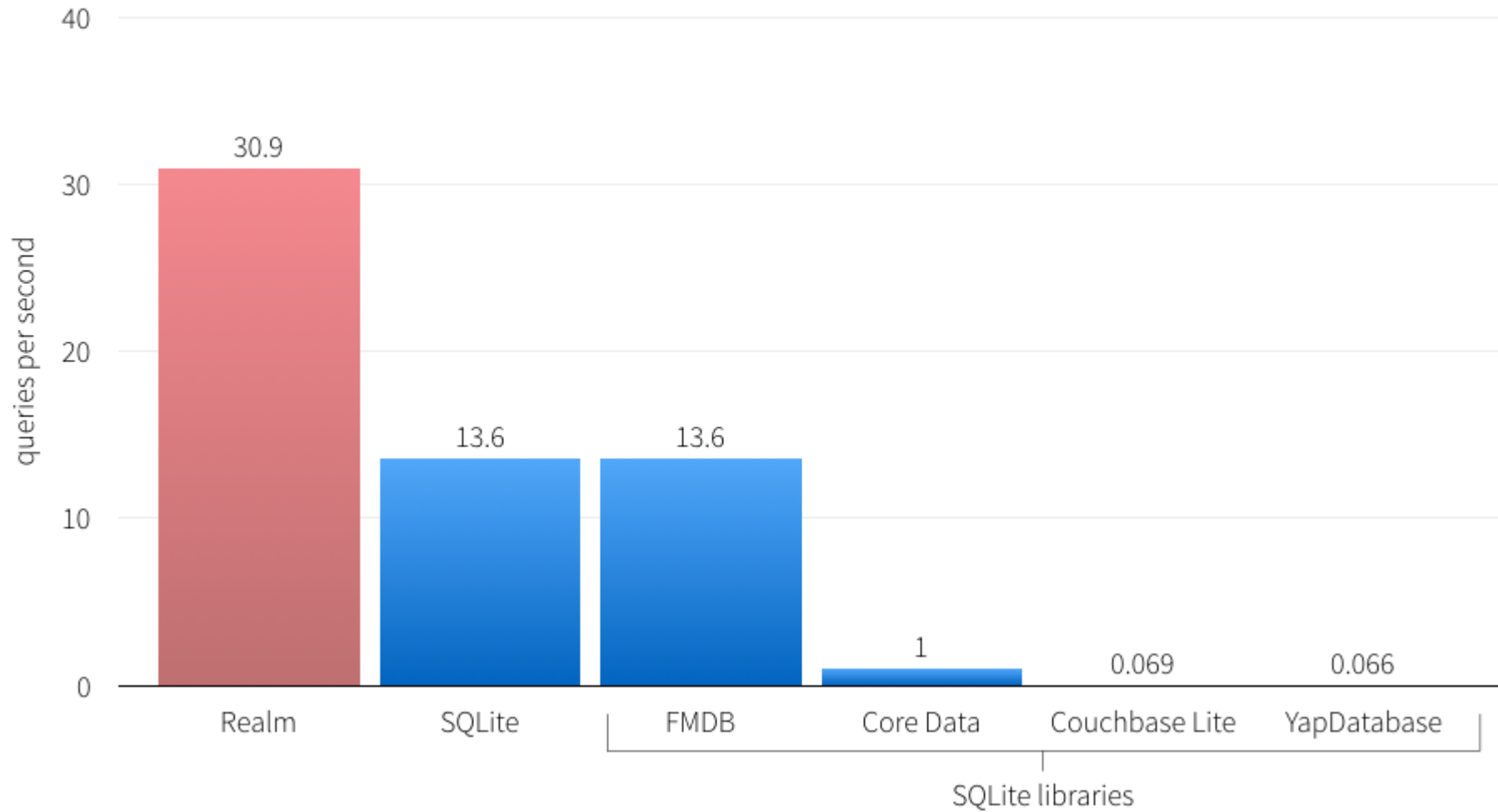
Inserts

Insert 200k records, in a single transaction (higher is better)



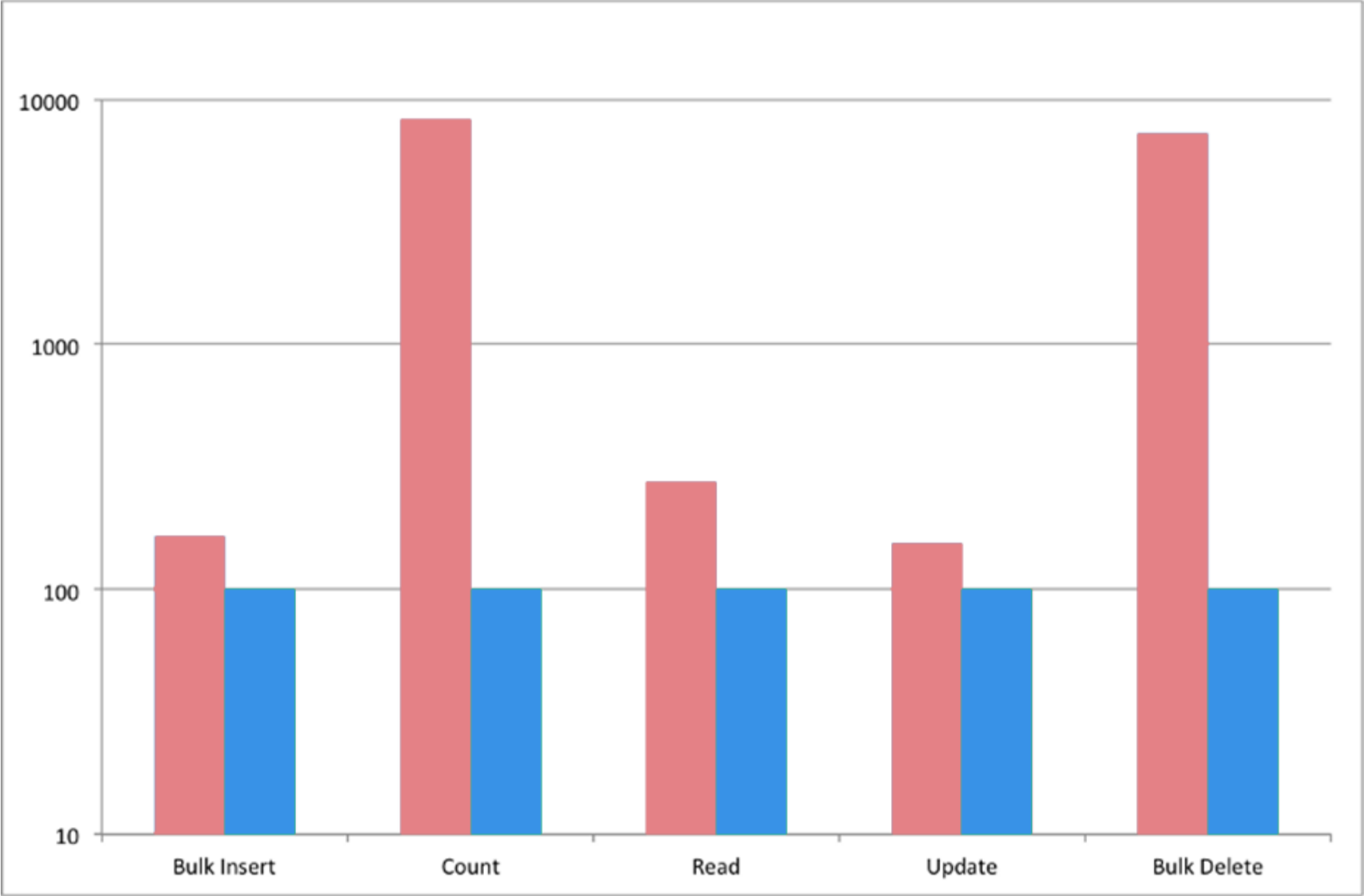
Counts

Get count of records matching a query on a database of 200k records (higher is better)





Everybody lies.



Realm API

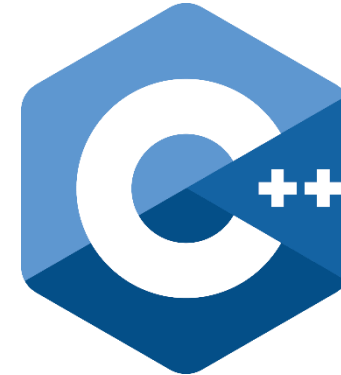


Android

iOS

Windows

Realm Core





```
SELECT * FROM Dogs WHERE  
Age <= 2
```

```
var pups = realm.All<Dog>()  
    .Where(d => d.Age <= 2);
```



```
SELECT * FROM Dogs WHERE  
Age <= 2
```

```
RealmResults<Dog> pups =  
    realm.where(Dog.class)  
        .lessThan("age", 2)  
        .findAll();
```



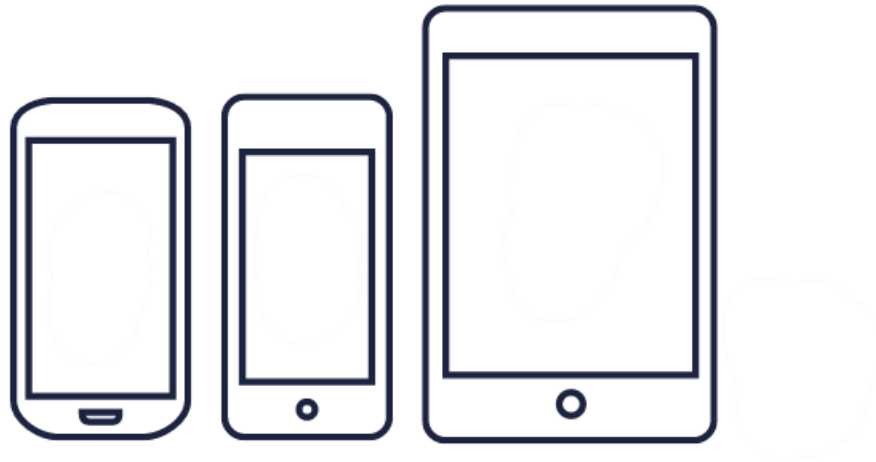
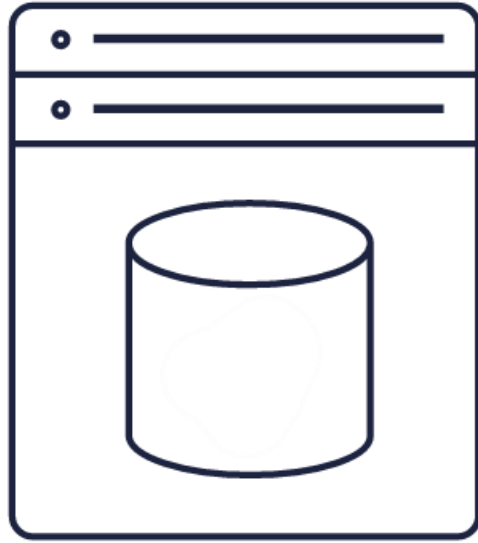

```
SELECT * FROM Dogs
JOIN Owners ON
Dogs.OwnerId = Owners.Id
WHERE Owner.Id = 1
```



```
var dogs = realm.Find<Owner>(1).Dogs;
```

```
RealmResults<Dog> persons =
realm.where(Dog.class)
    .equalTo("owner.id", 1)
    .findAll();
```

Sync



DEMO? 😊



Core Data





Firebase



Couchbase



Microsoft
Azure



realm



Couchbase





Firebase

- Data is not persisted
- Only 10 MB cache
- OMG NOSQL



Microsoft
Azure

- Microsoft
- AZURE
- SQLite + strange security



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What is server-side data access?



```
SELECT * FROM [Messages] WHERE  
[UserId] = 'Vasya' AND [Date] = '2017-05-20'
```

```
var database = FindFile("VasyaPuprkin.realm");
```

```
var messages = database.Messages.Where(x => x.Date  
== "2017-05-20");
```

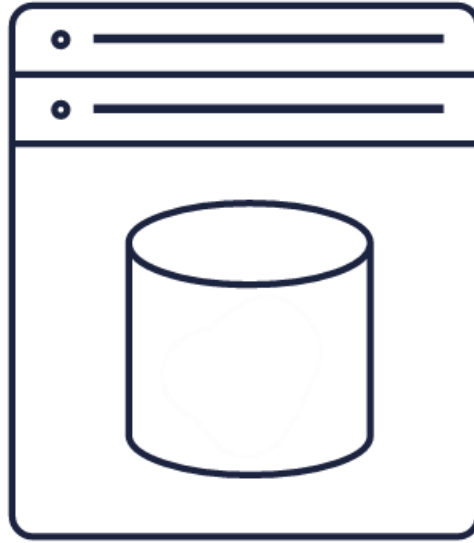
```
SELECT * FROM [Messages] WHERE  
[Date] = '2017-05-20'
```

```
foreach (var user in users)  
{  
    var database = FindFile(user + ".realm");  
    var messages = database.Messages  
        .Where(x =>x.Date == "2017-05-20");  
}
```

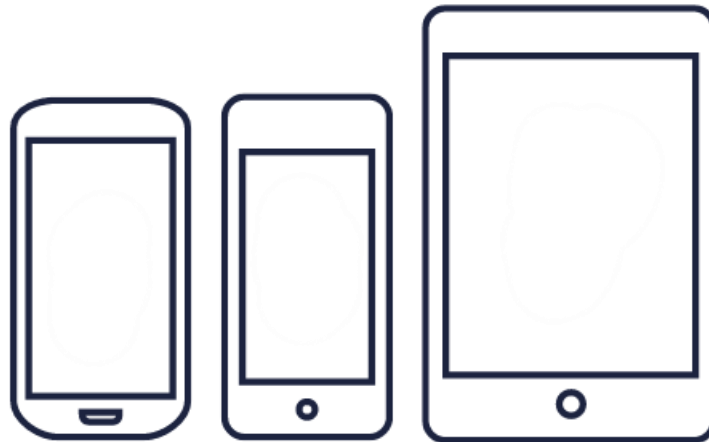
\$1500 per month

\$1500 per month





SQL Server
Entity Framework
SignalR



Realm.Xamarin

DEMO? 😊

Go visit

<http://realmius.rubius.com>

Q&A