Using Map Queries in PouchDB

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Module Goals

Learn about map queries

Temporary queries

Persistent queries (design documents)

Map Queries

Helps you perform complex queries

Uses the query() API

Temporary

- Index created on-the-fly

Persistent

- Permanent index created

```
db.query(function (doc) {
  emit(doc._id, doc.serviceDate);
});
```

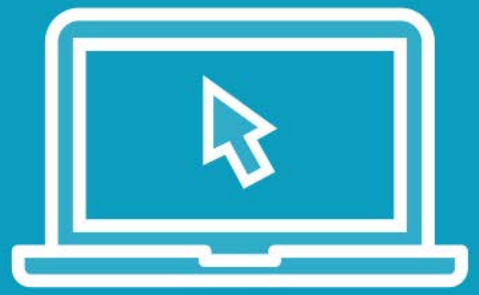
The query() API is passed a function used to return data

Document is passed in

Call emit() to provide data

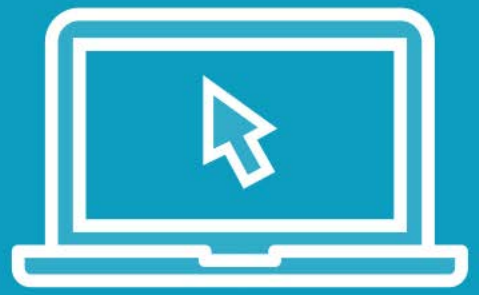
- First parameter is the 'key'
- Second parameter is the 'value'

Demo



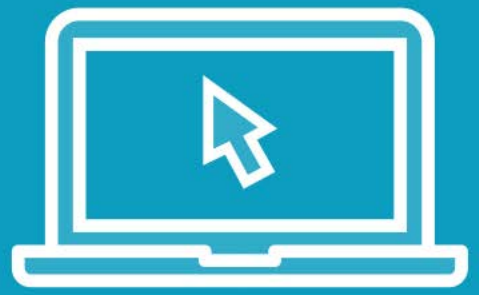
A temporary map query

Demo



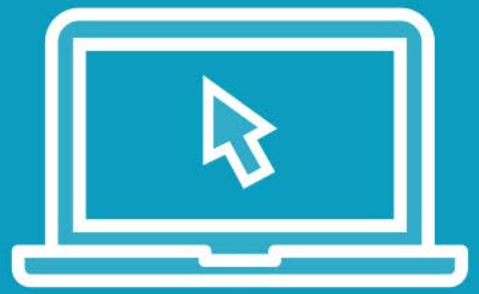
Just return a key (no value)

Demo



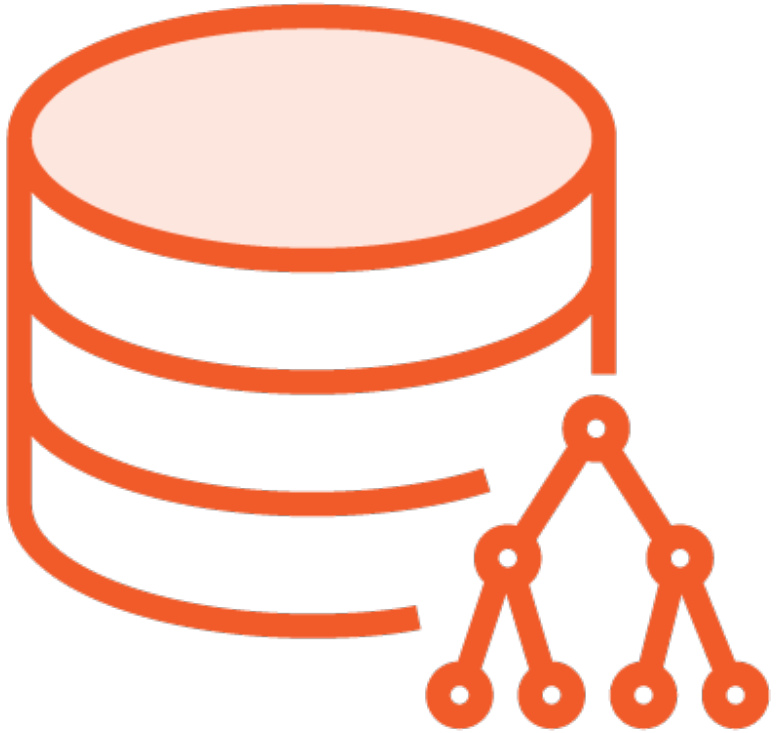
Multiple fields in value parameter

Demo



Return object for value

Design Document



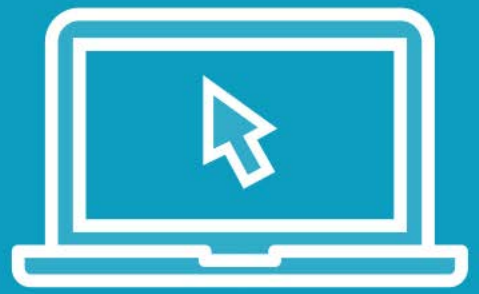
Create persistent query

Builds secondary index

Uses map function

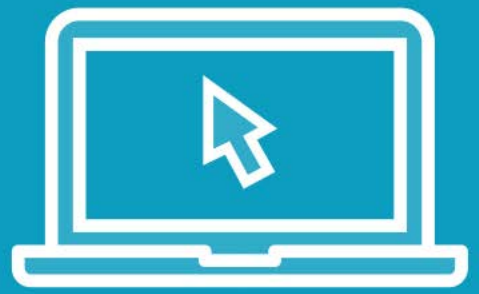
- Write code to include documents
- Use emit() function

Demo



Create design documents

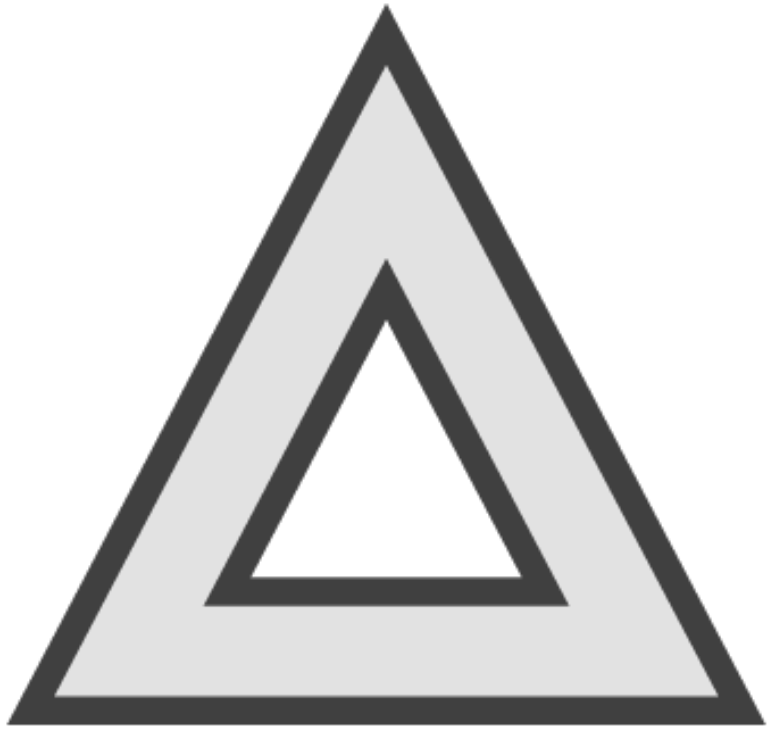
Demo



Search using design document

Filter data using startkey and endkey

Map Query Notes



Mango queries are easier

- Generally they solve 99% of your queries

Avoid temporary queries

- Use persistent queries

The first time you run the query, it is slow

- Builds the index

Summary

Learned to use the query() API

Can run them "on-the-fly"

Can create design document

Use persistent over temporary

Use allDocs()

- Then query() API
- Then find() API

Coming up in the next module...

Gather statistics

Learn built-in reduce functions