Demo 1: ESENT

* Demo the stock example
* An embedded database - Show the location of the .edb file
* Show the code.

Demo 2: Redis

* Spin up Redis server and client
* Walk thru store reviews demo in VS.
* Open up Redis Desktop client to show data being added/removed
* Show code for Demo apps (slide: simple read/write example) => demonstrate a pattern for NoSQL usage for .NET.

Demo 3: MongoDB

* Commands
  + **show dbs**
  + **use test** // In the mongo shell, db is the variable that references the current database. The variable is automatically set to the default database test or is set when you use the use <db> to switch current database.
  + **show collections**
  + **db.stats()**
  + db.counter2.drop()
  + db.friends.insert({“firstname” : “Rob”, “lastname” : “Stark”} )
  + db.friends.insert({“firstname” : “Jon”, “lastname” : “Snow”, “age” : 26} )
  + db.friends.insert({“firstname” : “Jim”, “lastname” : 44} )
  + for(i=0;i<1000000;i++) { db.counter2.insert({"foo": i} ) }
  + db.counter2.count()

db. counter.find().explain("executionStats")  
  
db.counter.createIndex( { "foo" : 1 } ) // create indexes

db.counter.find().explain("executionStats")

Demo 4: Elasticsearch

* Fire up Elasticsearch and Kibana (make sure I’ve run all these queries already once so it’s in memory)
* Then go to <http://localhost:5601/app/sense>
* Do some basic querying against the movies database:
  + GET /imdb/movies/\_search
    - Explain the results you are seeing
  + GET /imdb/movies/4
  + Query string query:

POST \_search  
{  
"query": {  
 "query\_string": {  
 "query": "keanu"  
 }  
 }  
}

This will find all Keanu's in in the database on any field. Things to note:

- Notice, it's a POST not a GET because we have a body  
- Not case sensitive  
- Could have done POST

The following query is by field

{  
 "query": {  
 "query\_string": {  
 "query": "ford",  
 "fields": ["title"]  
 }  
 }  
}

Notes:  
- "fields" is case-sensitive  
- To search in multiple fields, just keep adding elements to the array e.g. "fields" : ["title","Director"]

Demo 5: Neo4J

* Spin up Neo4J community edition and connect to movie database
* Just mess around and show the tags, then some bookmarked queries, understanding the results, etc.
* Then navigate to Gists out there (Game of Throne, Star Wars). Need to figure out how to clone to desktop and work interactively or with their dataset

Demo 6: Apache Cassandra

* MAKE SURE: I have already run the WinForms loader so the database has populated
* Mess around in the console => CQL
* Probably just go through the queries in the CQL GUI tool
  1. SELECT \* FROM users;
  2. SELECT \* FROM followed where username = ‘Molly’;
  3. SELECT \* FROM posts;
  4. SELECT \* FROM posts where username = ‘Jimmy’;