Popular NoSQL Databases

- Key Value Store
 - Redis
- Columnar Store
 - Cassandra
 - HBase
- Document Store
 - MongpDB
 - CouchDB

Simba MongoDB ODBC and JDBC Driver with SQL Connector

- MongoDB is schema-less, the SQL Connector defines schemas on the fly providing a low-touch SQL window to MongoDB data
- Quick access to MongoDB data through automatic schema generation and normalization of arrays as virtual tables
- Schema Editor allows for denormalization, such as array flattening
- Supports ANSI SQL-92
- Access MongoDB data via SQL from analytic applications, such as Microsoft Excel, Power BI, Qlikview, Tableau and more
- Supports multiple platforms, including Windows, Linux and Mac OS

Query Translator Convert MySQL Queries to MongoDB Syntax

http://www.querymongo.com/

Enter MySQL Query:

```
1 SELECT person, SUM(score), AVG(score), MIN(score), MAX(score), COUNT(*)
2 FROM demo
3 WHERE score > 0 AND person IN('bob','jake')
4 GROUP BY person;
```

MongoDB Syntax:

```
db.demo.group({
       "key": {
           "person": true
 3
4
5
6
      },
"initial": {
           "sumscore": 0,
           "sumforaverageaveragescore": 0,
           "countforaverageaveragescore": 0,
 9
           "countstar": 0
10
11
       "reduce": function(obj, prev) {
12
           prev.sumscore = prev.sumscore + obj.score - 0;
           prev.sumforaverageaveragescore += obj.score;
13
14
           prev.countforaverageaveragescore++;
15
           prev.minimumvaluescore = isNaN(prev.minimumvaluescore) ? obj.score : Math.min(prev.minimumvaluescore, obj.score)
           prev.maximumvaluescore = isNaN(prev.maximumvaluescore) ? obj.score : Math.max(prev.maximumvaluescore, obj.score)
16
17
           if (true != null) if (true instanceof Array) prev.countstar += true.length;
18
           else prev.countstar++:
      },
"finalize": function(prev) {
19
20
21
           prev.averagescore = prev.sumforaverageaveragescore / prev.countforaverageaveragescore;
22
           delete prev.sumforaverageaveragescore;
23
           delete prev.countforaverageaveragescore;
24
25
       "cond": {
26
           "score": {
27
               "$gt": 0
28
29
           "person": {
               "$in": ["bob", "jake"]
30
31
32
33 });
```