

NoSQL dan MongoDB

M03-H03

NoSql ? , DBMS NOsql

Sql : database, struktural, table related.

- Oracle, DB2, SQL Server, MySQL, dan PostgreSQL

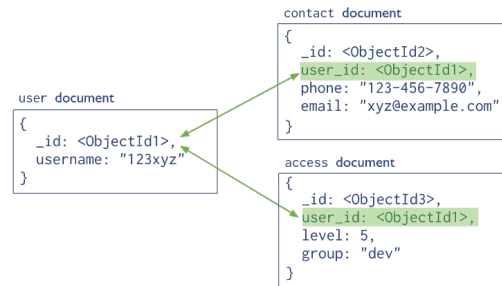
Nosql : Database, Non SQL, Non Struktural.

- MongoDB, Hadoop / HBase, Cassandra, Hypertable



MongoDB Data Model

- Object Data Model
- Flexible Schema
- Document Structure
 - Embedded Data
 - References

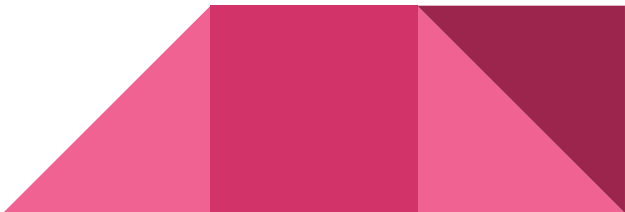


MongoDB

MongoDB : Non SQL , a document database, scalability, flexibility for querying and indexing

Installation On windows : <https://docs.mongodb.com/manual/installation/>

The mongo shell is an interactive JavaScript interface to MongoDB. You can use the mongo shell to query and update data as well as perform administrative operations. (Mongo Client) <https://docs.mongodb.com/manual/mongo/>



Crud Mongo

- Run Mongo Shell
 - Local MongoDB Instance on Default Port: **\$ mongo**
 - Local MongoDB Instance on a Non-default Port : **\$ mongo --port 28015**

- **Mongo CRUD**

- **Read:**

- **db.collection.insertOne() New in version 3.2**
 - **db.collection.insertMany() New in version 3.2**

- **Read**

- **db.collection.find()**

```
db.users.insertOne(  ← collection
{
  name: "sue",        ← field: value
  age: 26,            ← field: value
  status: "pending"   ← field: value
})                    } document
```

```
db.users.find(
  { age: { $gt: 18 } }, ← collection
  { name: 1, address: 1 } ← query criteria
).limit(5)              ← projection
                        ← cursor modifier
```

Lebih Lanjut Tentang MongoDB

<https://university.mongodb.com/>

MongoDB Driver : <https://mongodb.github.io/node-mongodb-native/>



- Update : db.collection.updateOne(), db.collection.updateMany() , db.collection.replaceOne() New in version 3.2

```
db.users.updateMany(  
  { age: { $lt: 18 } },  
  { $set: { status: "reject" } }  
)
```

← collection
← update filter
← update action

- Delete

- db.collection.deleteOne() New in version 3.2
- db.collection.deleteMany() New in version 3.2

```
db.users.deleteMany(  
  { status: "reject" }  
)
```

← collection
← delete filter

Terima kasih

