

@MongoDB - Database No Only SQL

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Developer by passion

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Contenido

MongoDB

MongoDB Medellin

Presentación

Example (yo)

```
1 {  
2   "name": "Jesse Javier Cogollo Alvarez",  
3   "age": 27,  
4   "title": "Developer by passion",  
5   "location": "Medellin, Colombia",  
6   "phone": "3207906256",  
7   "Marital status": "Married",  
8   "member": ["@avanet", "@MongoDBMedelln"],  
9   "social": {  
10     "facebook": "jessecogollo",  
11     "skype": "jessecogollo",  
12     "twitter": ["@jessecogollo", "@newdevs"]  
13   }  
14 }
```

Que es @MongoDB

'MongoDB (from "humongous") is an open-source document database, and the leading NoSQL database. Written in C++.'

<https://www.mongodb.org/>

'MongoDB was not designed in a lab. We built MongoDB from our own experiences building large-scale, high availability, robust systems...' [Eliot Horowitz, CTO and Co-Founder](#)

NOSQL

En informática, NoSQL (a veces llamado 'no sólo SQL') es una amplia clase de sistemas de gestión de bases de datos que difieren del modelo clásico del sistema de gestión de bases de datos relacionales (RDBMS) en aspectos importantes, el más destacado que no usan SQL como el principal lenguaje de consultas.

<http://es.wikipedia.org/wiki/NoSQL/>

NOSQL

Las características comunes de las bases de datos NoSQL son:

- No utilizan el modelo relacional.
- Corren bien en clusters.
- Open-source.
- sin esquemas.
- El resultado mas importante del aumento de las bases de datos NoSQL es la **Persistencia Poliglota**.

<http://martinfowler.com/articles/nosqlKeyPoints.html>

Persistencia poliglota

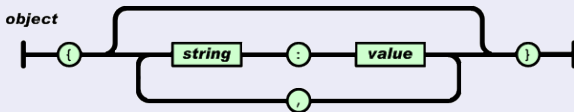


JSON

Definición

(JavaScript Object Notation) Formato de intercambio de datos.

Esquema



Ejemplo

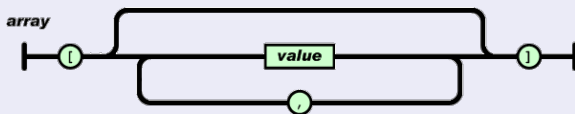
{ "llave": "valor" } ó {}

JSON

Definición array

Es el tipo de dato que puede contener un JSON.

Esquema



Ejemplo

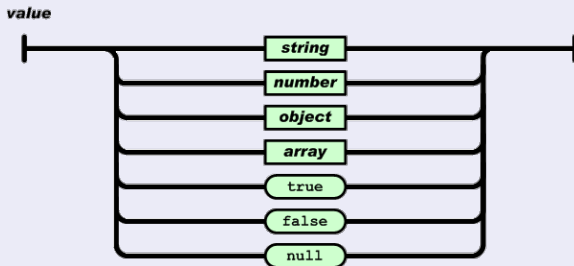
```
["valor1", "sena", 2014, true]
```

JSON

Definición valor

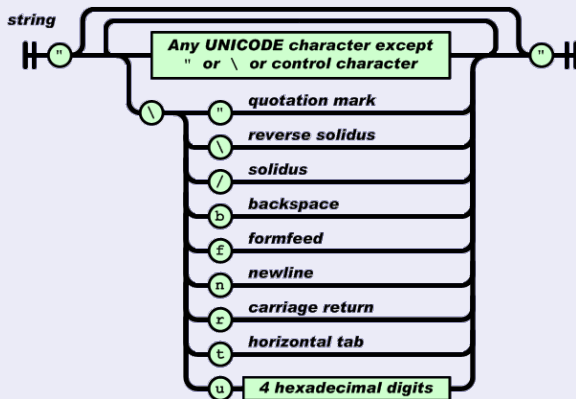
Es el tipo de dato que puede contener un JSON.

value



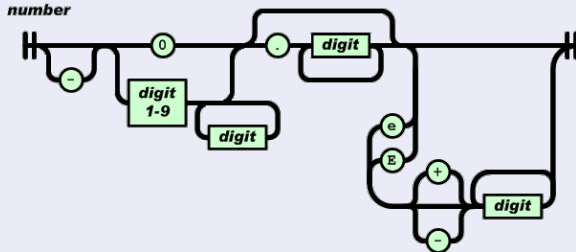
JSON

Esquema string



JSON

Esquema number



Características

1. **Document-Oriented Storage**
2. Full Index Support
3. Replication y High Availability
4. Auto Sharding
5. Querying
6. Fast In Place Updates
7. Map Reduce
8. GridFS
9. Other more...

Son documentos tipo **JSON** con esquemas dinamicos que ofrecen simplicidad y potencia. Los datos en MongoDB tienen esquemas flexibles. y las **colecciones** no obligan a mantener una estructura.

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Instalacion

Heading

1. Statement
2. Explanation
3. Example

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SHELL

Heading

1. Statement
2. Explanation
3. Example

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Insert Find Update Remove (CRUD)

Heading

1. Statement
2. Explanation
3. Example

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DEMO =)

Heading

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3. Example

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Administradores graficos

Heading

1. Statement
2. Explanation
3. Example

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Comunidad

Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table : Table caption

Theorem

Theorem (Mass–energy equivalence)

$$E = mc^2$$

Figure

Uncomment the code on this slide to include your own image from the same directory as the template .TeX file.



Citation

An example of the `\cite` command to cite within the presentation:

This statement requires citation [Smith, 2012].

References



John Smith (2012)

Title of the publication

Journal Name 12(3), 45 – 678.

Gracias !!! =)