mongoDB®

Companies Uses MongoDB

SQL vs NoSQL

Comparison

SQL

S → Structure

Q → Query

L → Language

Relational Database

NoSQL

N → Not

o → only

S → Structure

Q → Query

L → Language

Non-Relational Database

SQL

Relational Databases

User Table

_id	first_name	last_name	email	address	phone
1	Rahul	Sharma	rahul@co	123 St.	63-55

User Table

_id	first_name	last_name	email	email_2	address	phone
1	Rahul	Sharma	rahul@co	rahul2@co	123 St.	63-55

User Table

_id	first_name	last_name	email	email_2	email_3	address	phone
1	Rahul	Sharma	rahul@co	rahul2@co	rahul3@co	123 St.	63-55

User Table

_id	first_name	last_name	email	email_2	email_3	address	phone
1	Rahul	Sharma	rahul@co	rahul2@co	rahul3@co	123 St.	63-55
2	Ram	Krishna	rk@co			456 St.	88-99

User Table

_id	first_name	last_name	email	email_2	email_3	address	address_2	phone	phone_2
1	Rahul	Sharma	rahul@co	rahul2@co	rahul3@co	123 St.	7890 St.	63-55	34-44
2	Ram	Krishna	rk@co			456 St.		88-99	

User Table

_id	first_name	last_name	email	email_2	email_3	address	address_2	phone	phone_2
1	Rahul	Sharma	rahul@co	rahul2@co	rahul3@co	123 St.	7890 St.	63-55	34-44
2	Ram	Krishna	rk@co			456 St.		88-99	
3									
4									
5									
6									
7									
8									
9									
10									
11									

Relational Database

USER_TABLE

_id	first_name	last_name
1	Rahul	Sharma
2	Ram	Krishna
3		
4		
5		
6		
7		
8		
9		
10		
11		

EMAIL_TABLE

_id	user_id	email
1	1	rahul@co
2	1	rahul2@co
3	1	rahul3@co
4	2	rk@co

ADDRESS_TABLE

_id	user_id	address
1	1	123 St.
2	1	7890 St.
3	2	789 St.
4	3	109 St.

PHONE TABLE

_id	user_id	address
1	1	63-55
2	1	34-44
3	3	15-36
4	4	33-18

NoSQL

Non – relational Databases

NoSQL Database

- Key – Value
- Wide – Column
- Graph
- Document

NoSQL Database

mongoDB.

- MongoDB is a document database

Document Database

Table, row and columns

SQL

document

JSON
JavaScript Object Notation

BSON
Binary JavaScript Object Notation

```
{
    “key”: “value”
}
```

```
{
    “key”: “value”
}
```

```
{
    “key”: “value”
}
```

```
{
    “key”: “value”
}
```

```
{
    “key”: “value”
}
```

```
{
    “key”: 123
}
```

```
{
    “key”: [“string”, 123]
}
```

```
{
    “key”: {“key”: 123}
}
```

Record to Document

_id	first_name	last_name	email	email_2	email_3	address	address_2	phone	phone_2
1	Rahul	Sharma	rahul@co	rahul2@co	rahul3@co	123 St.	7890 St.	63-55	34-44

record

document

{} document.json

```
{
  "_id":1.
  "first_name": "Rahul",
  "last_name": "Sharma",
  "email": [
    "rahul@co",
    "rahul2@co",
    "rahul3@co"
  ],
  "address": [
    "123 St.",
    "7890 St."
  ],
  "phone": [
    "63-55",
    "34-44"
  ]
}
```

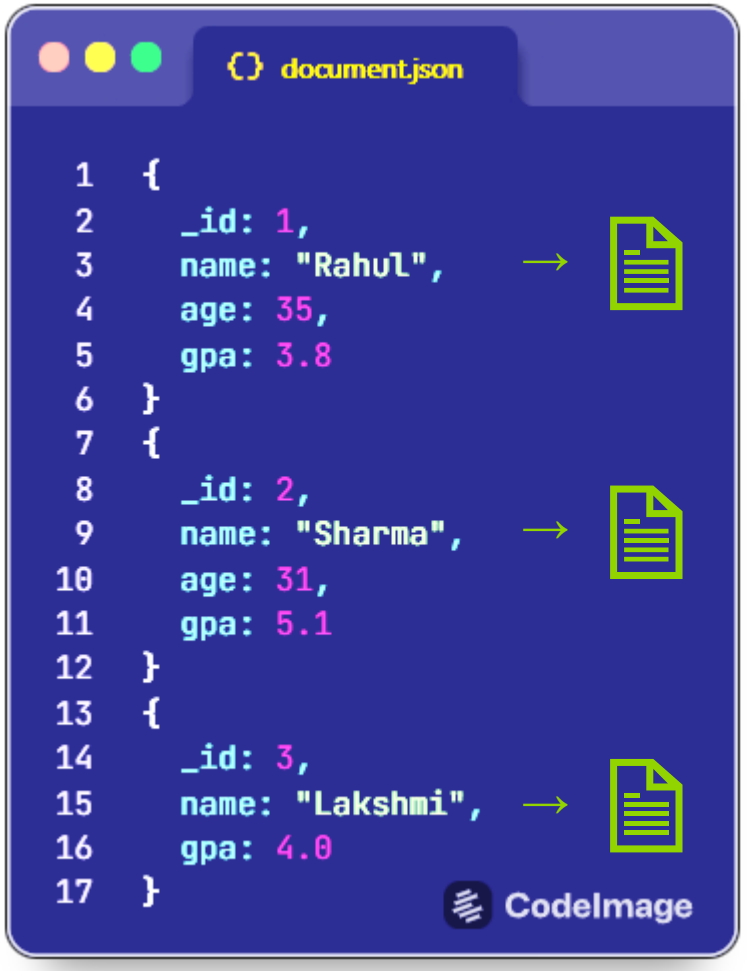
CodeImage

Table and Collection

table

_id	name	age	gpa
1	Rahul	35	3.8
2	Sharma	31	5.1
3	Lakshmi	27	4.0

collections



SQL	NoSQL
Cluster	Cluster
Database	Database
Table	Collection
Row	Document
Column	Field

Next |  Hello World to MongoDB Atlas

VEDICSKILL.