

Jayant Gupta CSE VI - B 2100290109006

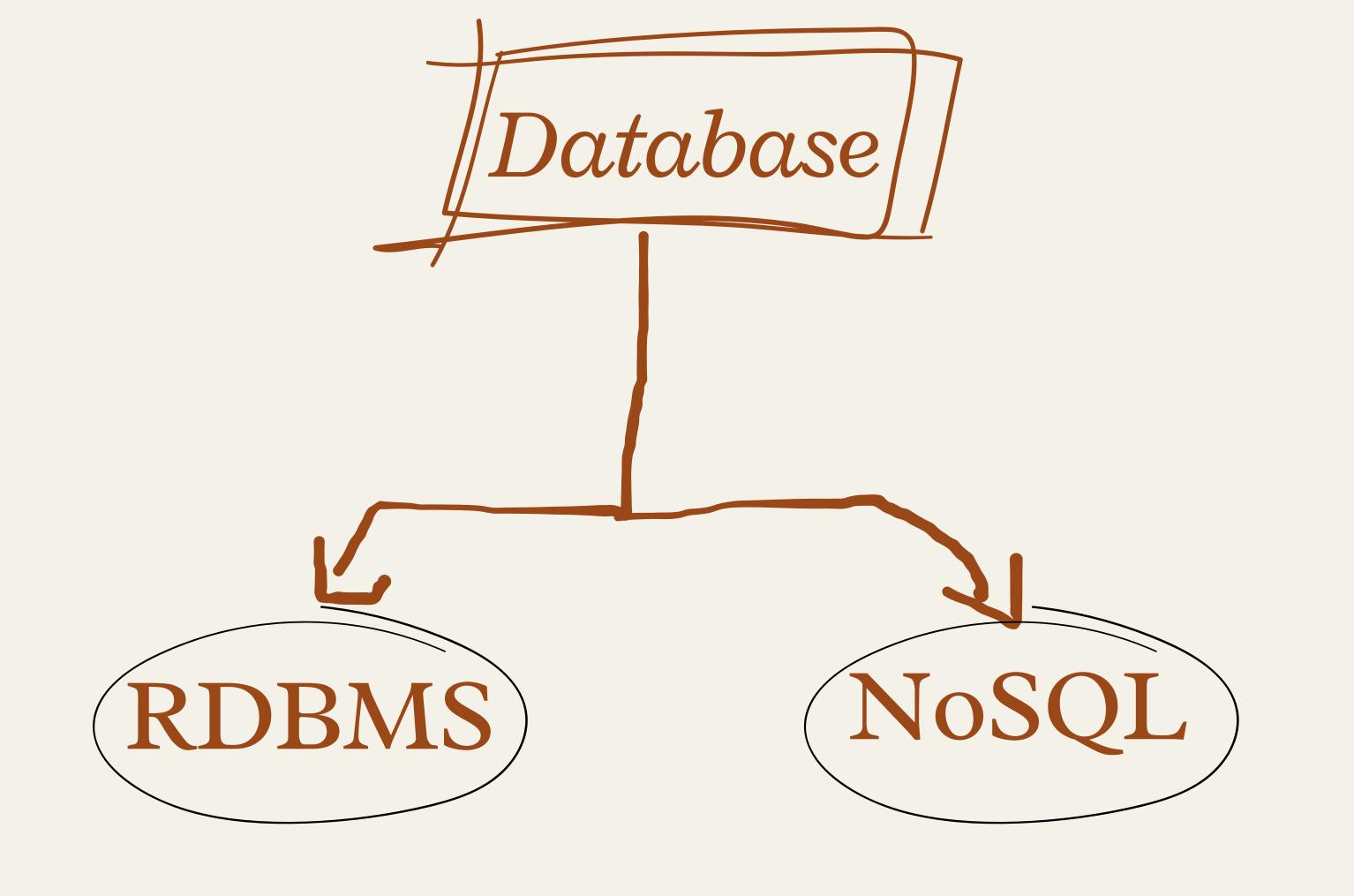




Table Format

Requires a schema

Uses FK

Supports Joins

Can scale vertically

No sharding

JSON Format

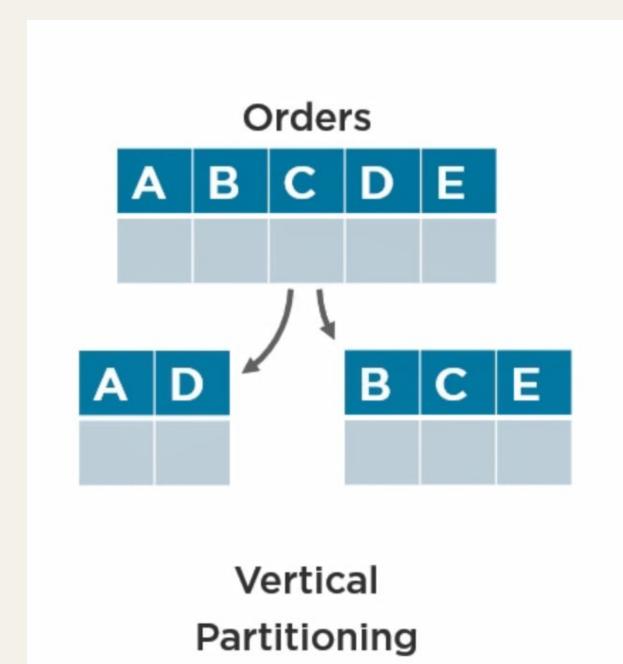
No prior schema

Does not use FK

Does not support joins

Both vertically and horizontally

Support sharding







ID	Name	Email
1		
3		

ID	Name	Email
2		
4		

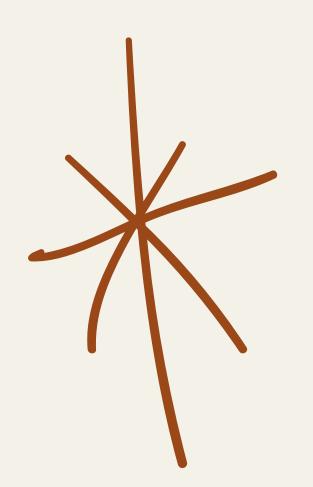


If requires the multi-row transaction and have structured data use **RDBMS**

For real-time analytics, IoT, and unstructured data use NoSQL.

Some examples of RDBMS and NoSQL

Ovacle
MySQL
PostgveSQL
SQLite



MongoDB Dynamo DBOvacle NoSQL Cassandra DB Redis

Data Types in MongoDB

String Integer Double Boolean Array Null Object Undefined

```
"date": {
```

```
"$date": 93614400000
"amount": 955,
"transaction_code": "buy",
"symbol": "csco",
"tags": ["arm", "cde", "dli"],
```

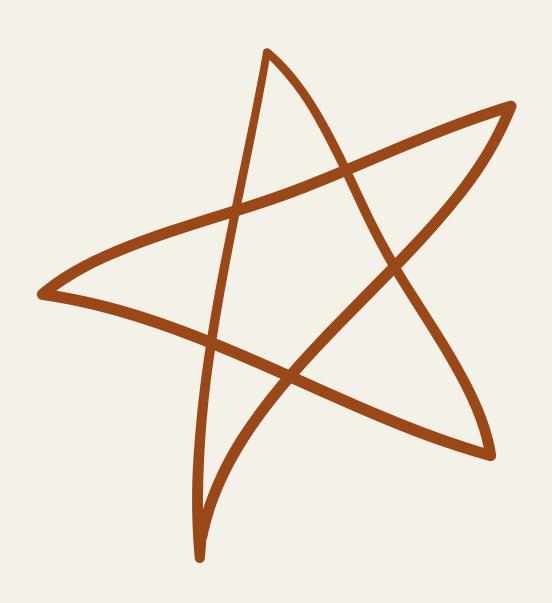
Some terminologies in MongoDB

Collection

Document

Object

Key-value pair



Mostly used operations in MongoDB

Create

db.createCollection()
db.collection.insertOne()
db.collection.insertMany()

Read

db.collection.find()
db.collection.findOne()

Update

db.collection.updateOne()
db.collection.updateMany()
db.collection.replaceOne()

Delete

db.collection.deleteOne()
db.collection.deleteMany()

