

Overview

- not only SQL
- [[SQL]] alternative
- uses [[Document Stores]] to store data as documents within collections as [[Key-Value Pairs]]

Benefits

- non-relational
 - key value pairs
 - graphs
 - time series
- schema-free
 - flexible
 - implicit
- impedance mismatch
- scalable
 - horizontal partitioning (sharding)
 - scaling

MongoDB Example

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| <ul style="list-style-type: none">▪ Creating a Collection | <pre>import pymongo as m conn = m.MongoClient("mongodb://localhost:123/") db = conn["dbs19"] # database dbs19 cust = db["customers"] # collection customers</pre> |
| <ul style="list-style-type: none">▪ Inserting into a Collection | <pre>mdict = { "name": "Jane Smith", "address": "Inffeldgasse 13, Graz" } id = cust.insert_one(mdict).inserted_id # ids = cust.insert_many(mlist).inserted_ids</pre> |
| <ul style="list-style-type: none">▪ Querying a Collection | <pre>print(cust.find_one({"_id": id})) ret = cust.find({"name": "Jane Smith"}) for x in ret: print(x)</pre> |

[[Data Models]]