

Laboratory 3

<https://db-engines.com/en/ranking/key-value+store>

Redis -> Key-value

Questions:

- 1) Explain the model, why just not use 1 DB?
- 2) Explain why to use with an specific technology, syntaxis, query, how to use (demo)

Points:

- Implement a component which implicates changes at both DB's.

Redis info:

Redis, which stands for Remote Dictionary Server, is a fast, open source, in-memory, key-value data store.

Redis is an ideal choice for real-time analytics use cases such as social media analytics, ad targeting, personalization, and IoT.

Schedule:

----- 18/11 -----

Explain the model, the NoSQL DB choosed and its purpose.

----- 25/11 -----

Keys and relation for which DB and why

----- 9/12 -----

CRUD (follow 2 above)

----- 16/12 -----

All code implemented and system functionalities

----- 21/12 -----

- Our presentation (20 min) (20% of theory)
- Take notes of each presentation to do a report (30% of theory)

Key-value:

<https://hazelcast.com/glossary/key-value-store/>

<https://severalnines.com/database-blog/redis-vs-dynamodb-comparison>

<https://severalnines.com/database-blog/introduction-redis-what-it-what-are-use-cases-etc>

<https://www.hostingplus.pe/blog/que-es-redis-y-por-que-deberias-conocer-este-concepto/>

Use cases for key-value databases:

<https://redis.com/nosql/key-value-databases/>
<https://aws.amazon.com/es/nosql/key-value/>

Shopping cart app example: <https://developer.redis.com/howtos/shoppingcart/>
Redis on Windows 10:

https://www.youtube.com/watch?v=B3U4dUT-5RI&ab_channel=CodeSpace
https://www.youtube.com/watch?v=_nFwPTHOMIY&ab_channel=Redis

SQL example:

[https://resources.fabric.inc/hs-fs/hubfs/ecommerce-platform-data-1.png?](https://resources.fabric.inc/hs-fs/hubfs/ecommerce-platform-data-1.png?width=1331&name=ecommerce-platform-data-1.png)
[width=1331&name=ecommerce-platform-data-1.png](https://resources.fabric.inc/hs-fs/hubfs/ecommerce-platform-data-1.png?width=1331&name=ecommerce-platform-data-1.png)
<https://i.stack.imgur.com/CRdym.png>

Edu:

<https://es.slideshare.net/mercyo/bd-nosql-clave-valor>
https://www.w3schools.com/nodejs/nodejs_mysql.asp
<https://searchdatamanagement.techtarget.com/tip/NoSQL-database-types-explained-Key-value-store>
<https://www.kdnuggets.com/2021/04/nosql-explained-understanding-key-value-databases.html>

Redis rollback:

<https://stackoverflow.com/questions/39585903/how-to-implement-transaction-with-rollback-in-redis/39595766>
<https://redis.com/blog/you-dont-need-transaction-rollbacks-in-redis/>