Database SQL vs. noSQL, stored procs & Redis noSQL demo

Collected & presented by Al Curry 4-12-2018

All code in github.com/AlCurry/dbpresents

What we'll cover

❏   explain & demo simple mySQL Stored Procedures

❏   some stats about SQL and noSQL databases

❏   a basic Redis noSQL DB app using Node will be presented

❏   installation instructions for Redis DB, client & server, and the app

Stored procedures

❏ SQL databases, including mySQL, support them

❏ 3 step to use:

1. Write

2. load to database

3. execute, possibly with parameters

❏ *May* be lengthy (20 pages) & deceptively complex

❏ Tricky to debug

❏ Examples

Stored procedure demo - bamazon

Reference links:

❏ https://dev.mysql.com/doc/refman/5.7/en/create-procedure.html

❏ http://www.mysqltutorial.org/mysql-nodejs/call-stored-procedures/

❏ https://www.sitepoint.com/using-node-mysql-javascript-client/

❏ http://www.mysqltutorial.org/stored-procedures-parameters.aspx

In code, at least for mySQL & Oracle, "call <stored_procedure_name>" indicates a stored proc will be executed - see examples in repo, like execProc1

Job counts by popular databases

	Dice	LinkedIn
MongoDb	1300	8800
Cassandra	1000	6800
Redis	550	4200
couchDB	60	400
RethinkDb	4	47
mySQL	2700	19000
oracle	8800	54000
postgreSQL	875	5700
Sybase	400	2400

Most popular Databases

Oracle

MySQL

Microsoft SQL Server

PostgreSQL

MongoDB

DB2

Microsoft Access

Cassandra

Elasticsearch

https://www.improgrammer.net/top-10-databases-should-learn-2015/ - despite page name, published in February 2018

https://www.improgrammer.net/most-popular-nosql-database/

https://db-engines.com/en/

Redis noSQL DB - app demo

❏ According to data cited earlier, Redis is 3rd most popular noSQL db, often ranked most-popular key-value database.

❏ Data in virtual memory, therefore very fast

❏ App manages users. Code is in github repo.

❏ Key screen shots there.

❏ Installation procedures detailed in README file.

https://en.wikipedia.org/wiki/Redis