Redis

12 Transactions

Transaction

Transaction

Transaction
(거래, 처리)

HTTP Transaction

Client   Web Server

HTTP Request

HTTP Response

2.
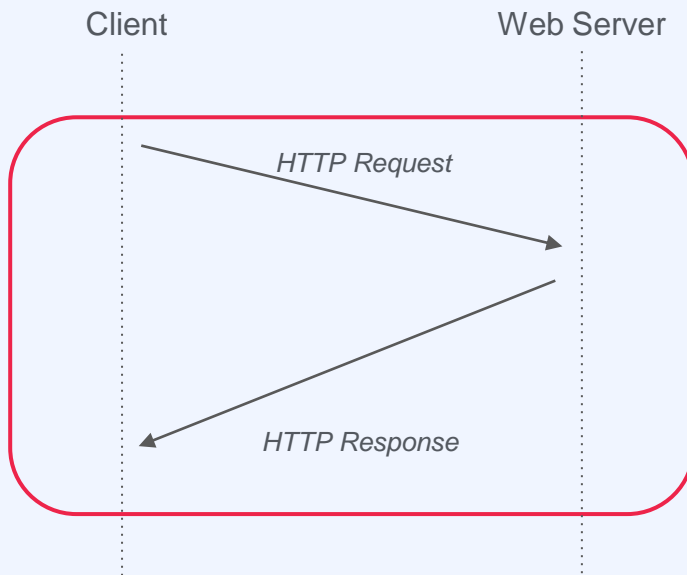
Redis

DB
Transaction
(Relational Database)

Client   Database

SQL Query

SQL Query

2.
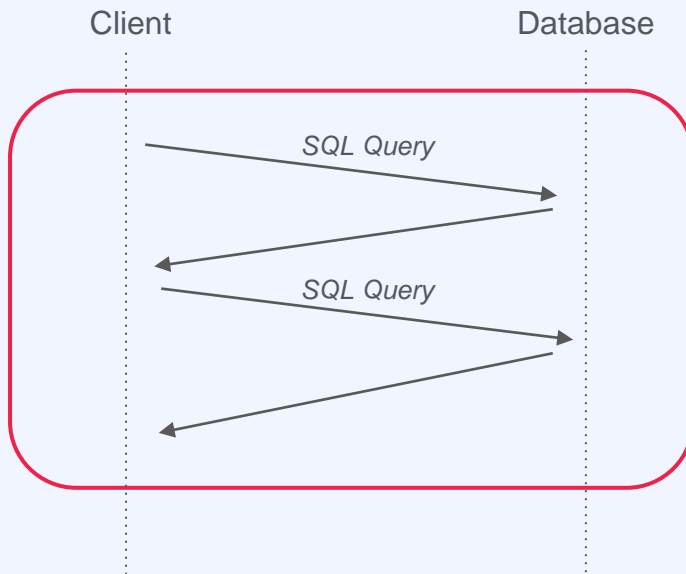
Redis

DB
Transaction

ACID
Atomicity
Consistency
Isolation
Durability
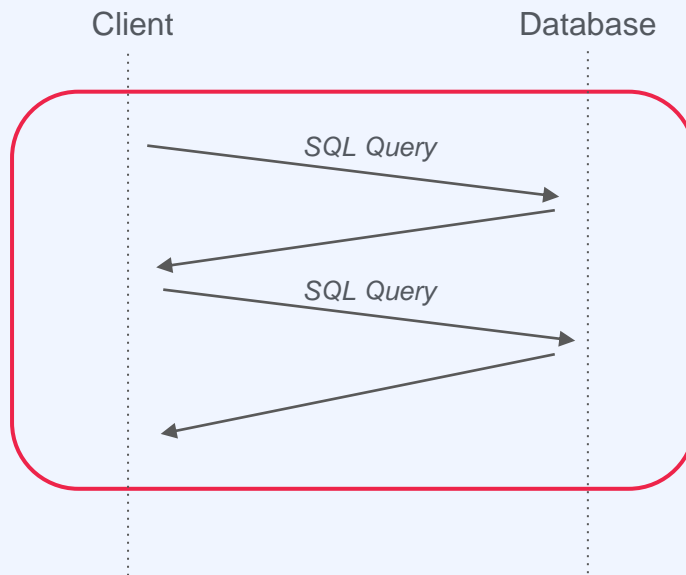
Client   Database

SQL Query

SQL Query

Transaction

Redis
Transaction

Client #2   Client #1   Redis Database

SET key1 10000

Queued

GET key1

..

nil

특징

Redis Transaction

Client

Redis
Database

Command

Queued

Command

Queued
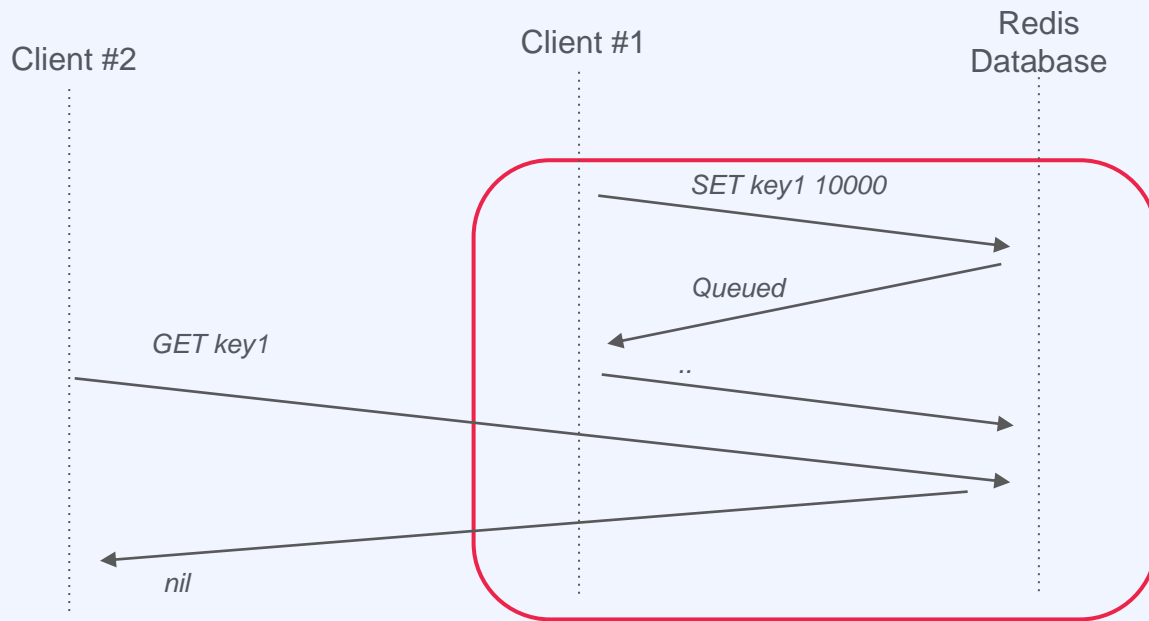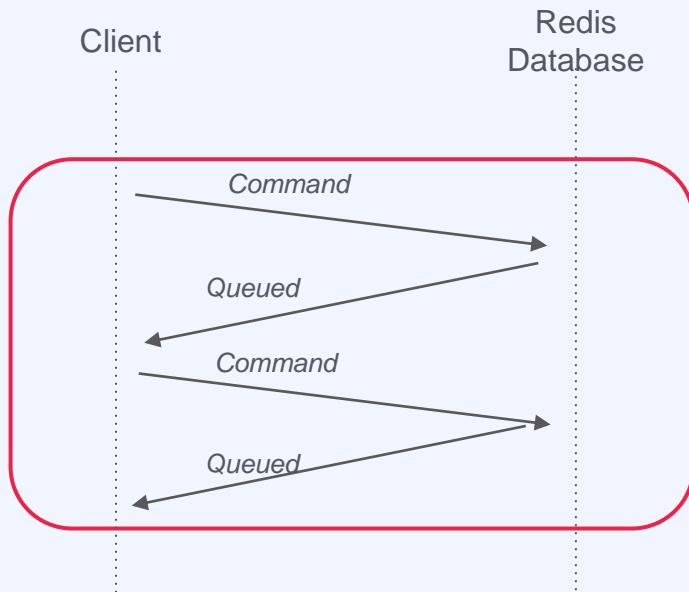
Single thread
1 step
(isolate)

특징

Client #1

Redis
Database

GET key1

Queued

SET key2 2000

.
.
.

1) 10000
2) OK

.
.
.

Transaction

특징

Client #1   Redis Database

GET key1

Queued

***SET123** key2 2000*

Queued

SET key3 3000

Queued

***(error) EXECABORT
Transaction discarded
because of previous errors.***

Transaction   **특징**

Client #1   Redis
                                              Database

GET key1

Queued

*SET key2 2000 **5000***

Queued

SET key3 3000

                                              1) 10000
                                              2) (error) ERR syntax error
Queued   *3) OK*
                                              .
                                              .
                                              .
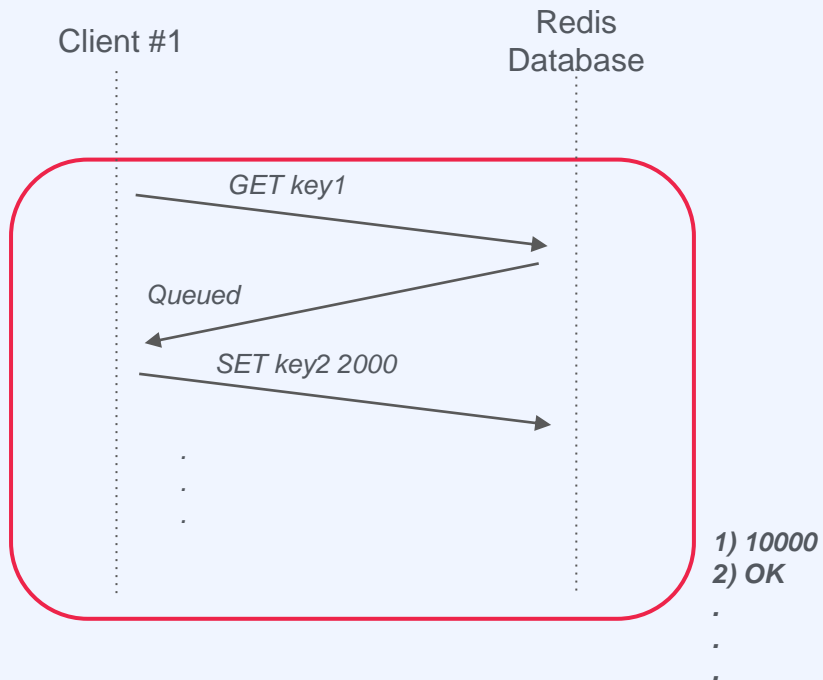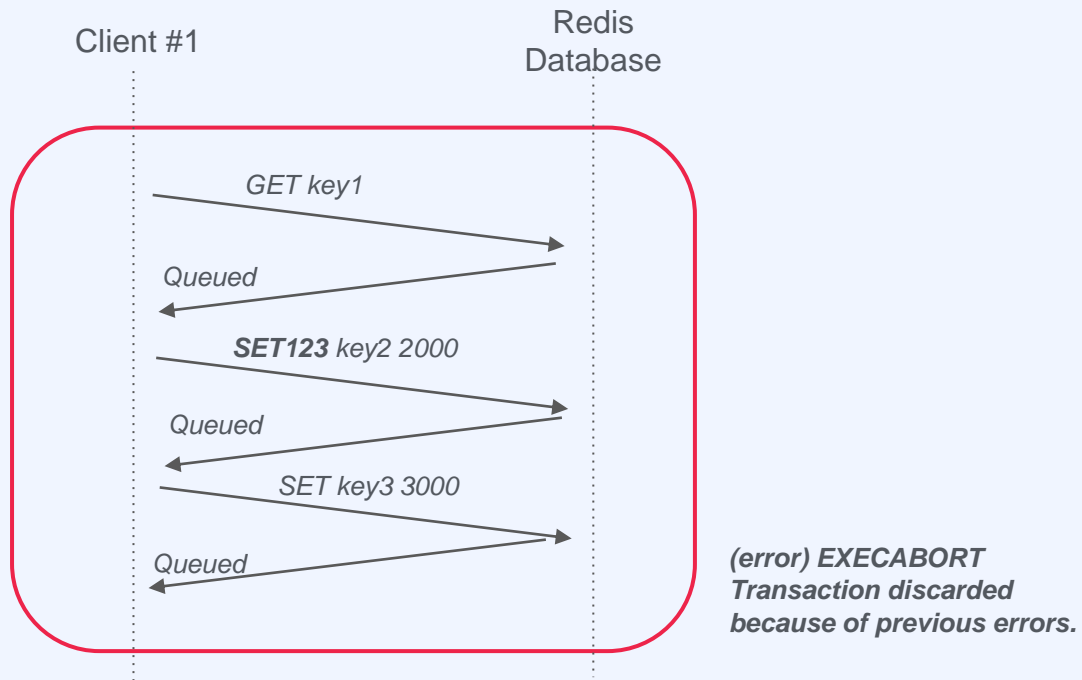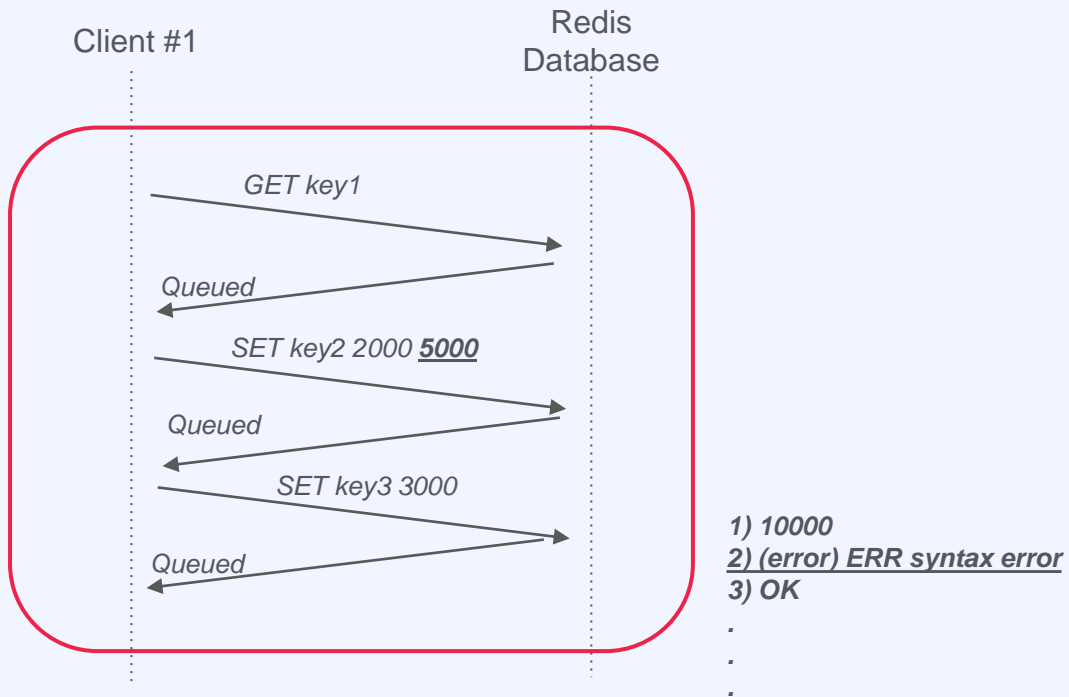
Transaction　　　　　　　　Command

command

- MULTI
- EXEC
- DISCARD
- WATCH

Transaction

실습

마무리

Transactions

- MULTI - EXEC/DISCARD
- Isolation
- WATCH with MULTI

Transactions

- MULTI - EXEC/DISCARD
- Isolation
- WATCH with MULTI

Transactions

- MULTI - EXEC/DISCARD
- Isolation
- WATCH with MULTI