2 sending response

1

User request with his ID=10

Select \* from User u where u.id = 10

2 sending response

User request with his ID=10

Select \* from User u where u.id = 10

Now doing some more operations for the same user

Query1,q2,….

1 one more request

2 sending response

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Now doing some more operations for the same user

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Wasting our time for fetching the same data again and again,

The solution is cache….

2 sending response

1

User request with his ID=10

Select \* from User u where u.id = 10

L1-CACHE

Result saved here

~~Select \* from User u where u.id = 10~~

Fetching R1 only (record)

Now doing some more operations for the same user

Query1,q2,….

User request with his ID=10

1

2 sending response

Say R-1

~~Select \* from User u where u.id = 10~~

Fetching R1 only (record)

Now doing some more operations for the same user

Query1,q2,….

User request with his ID=10

1

2 sending response

Wasting our time for fetching the same data again and again,

The solution is cache….

2 sending response

1

User request with his ID=10

Select \* from User u where u.id = 10

L1-CACHE

In terms of Hibernate

Result saved here

~~Select \* from User u where u.id = 10~~

Fetching R1 only (record)

Now doing some more operations for the same user

Query1,q2,….

User request with his ID=10

1

2 sending response

Say R-1

L1-CACHE

Creating L1 cache for another Session Obj

Creating one session object

~~Select \* from User u where u.id = 10~~

Fetching R1 only (record)

Now doing some more operations for the same user

Query1,q2,….

User request with his ID=10

1

2 sending response

Creating another session object

Wasting our time for fetching the same data again and again,

The solution is cache….

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User request with his ID=10

Select \* from User u where u.id = 10

L1-CACHE

In terms of Hibernate

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Fetching R1 only (record)

Now doing some more operations for the same user

Query1,q2,….

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1

2 sending response

Say R-1

L1-CACHE

Creating L1 cache for another Session Obj

Creating one session object

~~Select \* from User u where u.id = 10~~

Fetching R1 only (record)

Now doing some more operations for the same user

Query1,q2,….

User request with his ID=10

1

2 sending response

L2-CACHE

Creating L2 cache common to all session Obj

Creating another session object

In Hibernate L1 CACHE works for individual Session

L2 works for all sessions

L2

L1

L1

L1

L1

S4

S3

S2

S1