Fetching Mechanisms

1- JOIN fetch: from output below, we can see all USERS are fetched with related ITEMS in one JOIN query

\*\*\*\*\*\*\*\*\* TYPE OF FETCH GOES HERE s \*\*\*\*\*\*\*\*\*\*

Hibernate:

select

distinct user0\_.USER\_ID as USER\_ID1\_6\_0\_,

item2\_.ITEM\_ID as ITEM\_ID1\_5\_1\_,

user0\_.IS\_ADMIN as IS\_ADMIN2\_6\_0\_,

user0\_.EMAIL as EMAIL3\_6\_0\_,

user0\_.FIRSTNAME as FIRSTNAM4\_6\_0\_,

user0\_.LASTNAME as LASTNAME5\_6\_0\_,

user0\_.RANKING as RANKING6\_6\_0\_,

user0\_.version as version7\_6\_0\_,

item2\_.APPROVAL\_DATETIME as APPROVAL2\_5\_1\_,

item2\_.CREATED as CREATED3\_5\_1\_,

item2\_.DESCRIPTION as DESCRIPT4\_5\_1\_,

item2\_.END\_DATE as END\_DATE5\_5\_1\_,

item2\_.initialPrice as initialP6\_5\_1\_,

item2\_.ITEM\_NAME as ITEM\_NAM7\_5\_1\_,

item2\_.reservePrice as reserveP8\_5\_1\_,

item2\_.user\_id as user\_id11\_5\_1\_,

item2\_.START\_DATE as START\_DA9\_5\_1\_,

item2\_.OBJ\_VERSION as OBJ\_VER10\_5\_1\_,

boughtitem1\_.USERS\_USER\_ID as USERS\_US1\_6\_0\_\_,

boughtitem1\_.boughtItems\_ITEM\_ID as boughtIt2\_7\_0\_\_

from

USERS user0\_

inner join

USERS\_ITEM boughtitem1\_

on user0\_.USER\_ID=boughtitem1\_.USERS\_USER\_ID

inner join

ITEM item2\_

on boughtitem1\_.boughtItems\_ITEM\_ID=item2\_.ITEM\_ID

User Name : John Doe

Item : cardboard box

Item : plastic box

User Name : Steve Stag

Item : jewelry box

Item : round box

2- SubSelect Fetch: from output below, we can see all USERS are fetched in 1 query. then all related ITEMS (to all fetched users) are loaded using a sub-select-query

\*\*\*\*\*\*\*\*\* TYPE OF FETCH GOES HERE s \*\*\*\*\*\*\*\*\*\*

Hibernate:

select

user0\_.USER\_ID as USER\_ID1\_6\_,

user0\_.IS\_ADMIN as IS\_ADMIN2\_6\_,

user0\_.EMAIL as EMAIL3\_6\_,

user0\_.FIRSTNAME as FIRSTNAM4\_6\_,

user0\_.LASTNAME as LASTNAME5\_6\_,

user0\_.RANKING as RANKING6\_6\_,

user0\_.version as version7\_6\_

from

USERS user0\_

Hibernate:

select

boughtitem0\_.USERS\_USER\_ID as USERS\_US1\_6\_1\_,

boughtitem0\_.boughtItems\_ITEM\_ID as boughtIt2\_7\_1\_,

item1\_.ITEM\_ID as ITEM\_ID1\_5\_0\_,

item1\_.APPROVAL\_DATETIME as APPROVAL2\_5\_0\_,

item1\_.CREATED as CREATED3\_5\_0\_,

item1\_.DESCRIPTION as DESCRIPT4\_5\_0\_,

item1\_.END\_DATE as END\_DATE5\_5\_0\_,

item1\_.initialPrice as initialP6\_5\_0\_,

item1\_.ITEM\_NAME as ITEM\_NAM7\_5\_0\_,

item1\_.reservePrice as reserveP8\_5\_0\_,

item1\_.user\_id as user\_id11\_5\_0\_,

item1\_.START\_DATE as START\_DA9\_5\_0\_,

item1\_.OBJ\_VERSION as OBJ\_VER10\_5\_0\_

from

USERS\_ITEM boughtitem0\_

inner join

ITEM item1\_

on boughtitem0\_.boughtItems\_ITEM\_ID=item1\_.ITEM\_ID

where

boughtitem0\_.USERS\_USER\_ID in (

select

user0\_.USER\_ID

from

USERS user0\_

)

User Name : John Doe

Item : cardboard box

Item : plastic box

User Name : Steve Stag

Item : jewelry box

Item : round box

3- Batch fetch: from output below, we can see all USERS are fetched in 1 query. then all related ITEMS are loaded in batch based appraoch (according to my solution 3 users' items are fetched together then next 3, ... etc)

\*\*\*\*\*\*\*\*\* TYPE OF FETCH GOES HERE s \*\*\*\*\*\*\*\*\*\*

Hibernate:

select

user0\_.USER\_ID as USER\_ID1\_6\_,

user0\_.IS\_ADMIN as IS\_ADMIN2\_6\_,

user0\_.EMAIL as EMAIL3\_6\_,

user0\_.FIRSTNAME as FIRSTNAM4\_6\_,

user0\_.LASTNAME as LASTNAME5\_6\_,

user0\_.RANKING as RANKING6\_6\_,

user0\_.version as version7\_6\_

from

USERS user0\_

Hibernate:

select

boughtitem0\_.USERS\_USER\_ID as USERS\_US1\_6\_1\_,

boughtitem0\_.boughtItems\_ITEM\_ID as boughtIt2\_7\_1\_,

item1\_.ITEM\_ID as ITEM\_ID1\_5\_0\_,

item1\_.APPROVAL\_DATETIME as APPROVAL2\_5\_0\_,

item1\_.CREATED as CREATED3\_5\_0\_,

item1\_.DESCRIPTION as DESCRIPT4\_5\_0\_,

item1\_.END\_DATE as END\_DATE5\_5\_0\_,

item1\_.initialPrice as initialP6\_5\_0\_,

item1\_.ITEM\_NAME as ITEM\_NAM7\_5\_0\_,

item1\_.reservePrice as reserveP8\_5\_0\_,

item1\_.user\_id as user\_id11\_5\_0\_,

item1\_.START\_DATE as START\_DA9\_5\_0\_,

item1\_.OBJ\_VERSION as OBJ\_VER10\_5\_0\_

from

USERS\_ITEM boughtitem0\_

inner join

ITEM item1\_

on boughtitem0\_.boughtItems\_ITEM\_ID=item1\_.ITEM\_ID

where

boughtitem0\_.USERS\_USER\_ID in (

?, ?

)

User Name : John Doe

Item : cardboard box

Item : plastic box

User Name : Steve Stag

Item : jewelry box

Item : round box