Difference Between getCurrentSession() and openSession()

Hibernate ke do important methods — getCurrentSession() aur openSession() — ke beech ka clear difference diya gaya hai.

Point	getCurrentSession()	openSession()
Meaning	Current transaction ke sath bound session deta hai	Har baar ek naya independent session banata hai
Session creation	Agar transaction chal rahi hai to wahi session use karta hai; nahi hai to error deta hai	Hamesha naya session banata hai
Transaction dependency	Hamesha transaction ke andar hi kaam karta hai	Transaction ke bina bhi kaam karta hai
Session close	Hibernate automatically close karta hai jab transaction commit hoti hai	Tumhe manually session.close() karna padta hai
Use case	Jab Spring ke @Transactional annotation use kar rahe ho	Jab manually session handle kar rahe ho (without Spring)
Performance	Efficient — kyunki ek hi session use hota hai transaction ke andar	Har baar naya session banta hai, thoda overhead hota hai
Error possibility	Agar transaction na ho to HibernateException deta hai	Koi error nahi deta, bas tumhe close karna padta hai
Thread binding	Session current thread se bind hota hai	Session kisi thread se bind nahi hota
Example	sessionFactory.getCurrentSession()	sessionFactory.openSession()

Simple Summary

getCurrentSession() — 'Transaction ke andar hi kaam karta hai, auto close hota hai.'

openSession() — 'Har baar naya session deta hai, manually close karna padta hai.'

Suggestion:

• Agar tum Spring + Hibernate use kar rahe ho (jisme @Transactional laga hai), to getCurrentSession() best hai.

• Agar tum pure Hibernate use kar rahe ho bina Spring ke, to openSession() use karo.