

Hibernate - Interview Sheet

ORM internals, caching, relationships, and query strategies

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Top 10 Interview Questions

Q1. What is Hibernate and how does the ORM model map Java objects to relational database tables?

Answer:

Q2. Explain the Hibernate Session entity lifecycle states: transient, persistent, detached, and removed.

Answer:

Q3. What is the difference between Session.get(), Session.load(), and EntityManager.find() in Hibernate?

Answer:

Q4. Explain lazy vs eager fetching in Hibernate. What is the FetchType default for @OneToMany?

Answer:

Q5. Describe the two levels of Hibernate caching: Session (L1) and SessionFactory (L2). How is L2 configured?

Answer:

Q6. How do you map bidirectional @OneToMany and @ManyToOne relationships? Who owns the relationship?

Answer:

Q7. What is HQL (Hibernate Query Language) and how does it differ from SQL and Criteria API?

Answer:

Q8. Explain optimistic and pessimistic locking in Hibernate. How do you use @Version for optimistic locks?

Answer:

Q9. What causes the N+1 select problem in Hibernate and what are three strategies to solve it?

Answer:

Q10. How do you use Hibernate with Flyway or Liquibase for database schema migrations?

Answer:
