

Q1. What is the JPA specification and how does it relate to Hibernate as a JPA provider?

Answer:

Q2. Explain the JPA entity lifecycle states: New, Managed, Detached, and Removed.

Answer:

Q3. What is the EntityManager's role in JPA? How do persist(), merge(), and remove() differ?

Answer:

Q4. How do you write JPQL queries? Explain named queries and how they are validated at startup.

Answer:

Q5. What is the difference between @Entity, @MappedSuperclass, and @Embeddable annotations?

Answer:

Q6. Explain the three JPA inheritance mapping strategies: SINGLE_TABLE, TABLE_PER_CLASS, and JOINED.

Answer:

Q7. How do derived query methods work in Spring Data JPA? Give an example for findByEmailAndActive.

Answer:

Q8. What is the @Transactional annotation's role in JPA? Explain propagation and isolation levels.

Answer:

Q9. How do you map composite primary keys in JPA using @EmbeddedId or @IdClass?

Answer:

Q10. What is the difference between a JPQL query returning an entity vs a DTO projection?

Answer: