Assignment: 4

1. **What is Hibernate?**

   Explain the Hibernate architecture and describe the roles of Configuration, SessionFactory, Session, and Transaction.

2. **What is JPA and how is it different from Hibernate?**

   Compare and contrast JPA and Hibernate with examples and a comparison table.

3. **Explain the role and types of Generator Classes in Hibernate.**

   Describe at least five different generator classes and their use cases with syntax.

4. **What are Dialects in Hibernate?**

   Why are they necessary and how are they configured? Give examples.

5. **Discuss the different types of Mapping in Hibernate.**

   Explain how primitive, date/time, binary, and JDK-related types are mapped.

6. **Describe the use of Annotations in Hibernate.**

   List at least five commonly used annotations and explain their roles in simplifying Hibernate configurations.

7. **What is HQL and HCQL in Hibernate?**

   Compare Hibernate Query Language (HQL) and Hibernate Criteria Query Language (HCQL) with examples.