**Introduction to Hibernate**

* What is Hibernate
* Overview of Hibernate Architecture
* JDBC Vs Hibernate
* Executing first program and debugging and analyzing logs

**Hibernate Query Language(HQL)**

* Hibernate Object Fetching Options
* Hibernate Query
* HQL Parameters
* Named Queries
* Native SQL

**Criteria**

* Restrictions
* Query By Example
* Scrolling
* Pagination
* Query Hints

**Persistent Objects**

* Entity Lifecycle
* Transient, Persistent, and Detached States
* Persistent Object Updates

**Mapping using Annotations**

* Hibernate and JPA annotations
* Class-to-table mappings
* Property Mapping
* Primary Key Generators [sequence, identity, native, etc], Multiple DBs

**Hibernate Mapping Associations**

Fetching strategies

* Many-to-one
* One-to-one
* Many-to-many

**CRUD operations [Bind variables, POJO states]**

**CRUD operations [lazy vs eager, persist(), merge(), load() and get() methods]**

**Mapping Inheritance**

* Inheritance Mapping Strategies
* Table per Concrete Class
* Table per Subclass
* Table per Class

**Hibernate Project1 [Reverse Engineering using Hibernate Tools]**

**Performance Tuning and Optimisation**

* 2nd-Level Cache
* Batching
* DML-style operations

**Hibernate Project**

**Interview questions, Resume Preparation**