## **Lecture 20: Fetching Data Using HQL**

#### **Theory**

HQL (Hibernate Query Language) provides a powerful way to retrieve data from databases using object-orientated syntax. Unlike SQL, HQL operates on entity objects rather than database tables.

#### **Basic HQL Implementation**

```
Configuration Setup:
```

```
SessionFactory sf = new Configuration()
  .addAnnotatedClass(com.telusko.Laptop.class)
  .configure()
  .buildSessionFactory();
Simple Entity Retrieval:
Session session = sf.openSession();
// Direct entity retrieval using get() method
Laptop I1 = session.get(Laptop.class, 3);
System.out.println(I1);
session.close();
sf.close();
HQL Query Execution:
Session session = sf.openSession();
// HQL: select * from laptop where ram=32 -> SQL equivalent
// HQL: from Laptop where ram=32
Query query = session.createQuery("from Laptop");
List<Laptop> laptops = query.getResultList();
System.out.println(laptops);
session.close();
```

### **Key Concepts**

- Entity-Based Queries: Use entity names instead of table names
- Object-Oriented: Returns objects, not primitive data
- Type Safety: Compile-time checking for entity properties



# **Important Deprecation Notice**

The createQuery() method has been **deprecated in Hibernate 6.6.3** but not removed. Consider using newer alternatives for future compatibility.

