**✅ Query by Example (QBE) in Hibernate (Legacy API)**

**Query by Example** is a flexible way to fetch records by partially filling a sample entity (example object). Hibernate compares non-null property values to form the WHERE clause.

**🧱 Example Use Case: Find Employees by name and salary**

**1. ✅ Prerequisite: Enable hibernate.use\_identifier\_rollback (optional, for certain use cases)**

You don’t need extra config for QBE; it's built-in as long as you're using Hibernate 5.x or earlier.

**✅ Code: Query by Example in Hibernate**

import org.hibernate.\*;

import org.hibernate.criterion.\*;

Emp exampleEmp = new Emp();

exampleEmp.setE\_name("king"); // only setting the fields you want to match

// exampleEmp.setSalary(24000.00); // you can add more fields if needed

Session session = sessionFactory.openSession();

Example empExample = Example.create(exampleEmp)

.enableLike() // Enables LIKE match

.ignoreCase(); // Case-insensitive

Criteria crit = session.createCriteria(Emp.class)

.add(empExample);

List<Emp> result = crit.list();

for (Emp e : result) {

System.out.println(e.getE\_code() + " " + e.getE\_name());

}

**🔍 Features of Query by Example**

* ✅ Ignores null values
* ✅ Supports like matching
* ✅ Can be combined with Criteria restrictions

**✅ Combine QBE with Additional Restrictions**

Criteria crit = session.createCriteria(Emp.class)

.add(Example.create(exampleEmp).enableLike().ignoreCase())

.add(Restrictions.gt("salary", 25000.0)); // additional filter

List<Emp> filtered = crit.list();

**🛑 Limitations of Query by Example:**

* 🚫 Doesn't support complex joins or projections
* 🚫 Doesn't work for collections or associations
* ✅ Best for simple matching on direct entity fields