

# Lecture 22: Get vs Load Methods

## Theory

Hibernate provides different methods for entity retrieval, each with specific use cases and performance characteristics.

## Method Comparison

### Using the `get()` Method:

```
// Traditional approach (deprecated in 7.1.0)
Laptop laptop = session.get(Laptop.class, 2);
System.out.println(laptop);
```

### Using the `load()` Method:

```
// Load method (also deprecated)
Session session = sf.openSession();
Laptop laptop = session.load(Laptop.class, 2);
System.out.println(laptop);
session.close();
```

## Modern Alternatives

### Recommended Approaches:

```
// Modern alternative to get()
session.find(Laptop.class, 2);

// Modern alternative to load()
session.getReference(Laptop.class, 2);
```

## Key Differences

Aspect	<code>get()</code> Method	<code>load()</code> Method
Execution	Immediate database hit	Lazy loading (proxy)
Null Handling	Returns null if not found	Throws exception if not found
Performance	Direct retrieval	Proxy-based retrieval
Status	Deprecated in 7.1.0	Deprecated in 7.1.0

## Best Practices

- **Use `session.find()`** instead of `get()` for immediate loading
- **Use `session.getReference()`** instead of `load()` for lazy loading
- **Consider performance implications** of each approach
- **Plan for future Hibernate versions** by avoiding deprecated methods

## Deprecation Timeline

Both the `get()` and `load()` methods are deprecated in Hibernate 7.1.0 but remain functional for backward compatibility.