

# i2i Academy

## Training Document

Topic	Hazelcast
Document Name	HAZELCAST-EX-03

Document Difficulty Level			
Beginner	Junior	Senior	Expert
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## Document History

Date	Author	Ver	Comments
<b>05.03.2025</b>	Mennan Tekbir	1.0	Initial Draft
<b>05.03.2025</b>	Mehmet Erdem Önal	1.1	Revisions

## Hazelcast

### Exercise HAZELCAST-EX-03:

**Definiton:** Use the hazelcast server you set up in *HAZELCAST-EX-02* and create sample java program that puts a dummy Person object into the Hazelcast map 10,000 times ( in a for loop). Then, get these objects from the Hazelcast map.

**Helper Link:** <https://github.com/hazelcast/hazelcast-code-samples/tree/master/serialization/kryo-serializer>

#### Sample Person Class:

```
public class Person {  
    private String name;  
    private Person() { }  
    ...  
}
```

Please provide screenshots to show your work.

## HAZELCAST -EX-03 Solution:

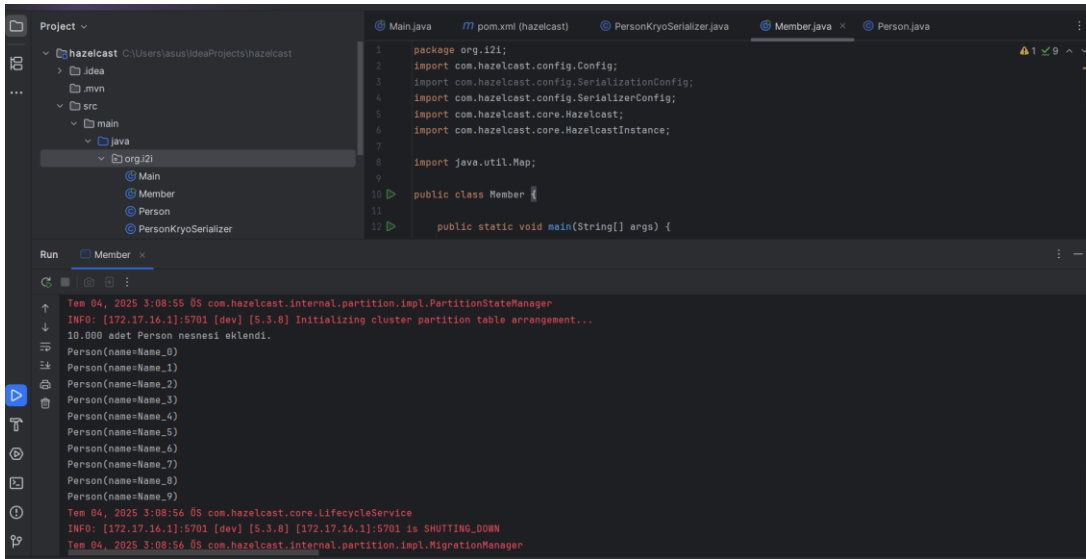
```
© Main.java  pom.xml  PersonKryoSerializer.java  Member.java  Person.java x
1  package org.i2i;
2  @SuppressWarnings("unused") 9 usages
3  public class Person {
4
5      private String name; 2 usages
6
7      private Person() { no usages
8      }
9
10     public Person(String name) { this.name = name; }
13
14     @Override
15     public String toString() { return String.format("Person(name=%s)", name); }
18 }
```

```
© Main.java  pom.xml  PersonKryoSerializer.java  Member.java x  Person.java
10  public class Member {
12      public static void main(String[] args) {
17          .setClass(PersonKryoSerializer.class);
18          config.getSerializationConfig().addSerializerConfig(serializerConfig);
19
20          // Hazelcast instance başlat
21          HazelcastInstance hz = Hazelcast.newHazelcastInstance(config);
22          Map<String, Person> map = hz.getMap("personMap");
23
24          // 10.000 adet Person nesnesi ekle
25          for (int i = 0; i < 10000; i++) {
26              map.put("person" + i, new Person("Name_" + i));
27          }
28
29          System.out.println("10.000 adet Person nesnesi eklendi.");
30
31          // İlk 10 nesneyi oku
32          for (int i = 0; i < 10; i++) {
33              Person p = map.get("person" + i);
34              System.out.println(p);
35          }
36
37          // Hazelcast kapat
38          Hazelcast.shutdownAll();
39      }
40  }
```

```

Main.java x pom.xml PersonKryoSerializer.java x Member.java Person.java
13 public class PersonKryoSerializer implements StreamSerializer<Person> { 1 usage
15     private static final ThreadLocal<Kryo> KRYO_THREAD_LOCAL = ThreadLocal.withInitial(() -> { 2 usages
17         kryo.register(Person.class);
18         return kryo;
19     });
20
21     @Override
22     public int getTypeId() {
23         return 1; // Her serializer için benzersiz bir ID gerekir
24     }
25
26     @Override
27     public void write(ObjectDataOutput out, Person person) throws IOException {
28         Kryo kryo = KRYO_THREAD_LOCAL.get();
29         Output output = new Output((OutputStream) out);
30         kryo.writeObject(output, person);
31         output.flush();
32     }
33
34     @Override
35     public Person read(ObjectDataInput in) throws IOException {
36         Kryo kryo = KRYO_THREAD_LOCAL.get();
37         Input input = new Input((InputStream) in);
38         return kryo.readObject(input, Person.class);
39     }
40
41     @Override
42     public void destroy() {
43         // No-op
44     }
45
pom.xml (hazelcast) x PersonKryoSerializer.java Member.java Person.java
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
3     <modelVersion>4.0.0</modelVersion>
4
5
6
7     <groupId>org.i2i</groupId>
8     <artifactId>hazelcast</artifactId>
9     <version>1.0-SNAPSHOT</version>
10
11     <properties>
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675                     <artifactId>hazelcast-all</artifactId>
676                     <version>4.2.8</version>
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708                         <version>3.5.1</version>
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828                 </dependency>
829                 <dependency>
830                     <groupId>com.hazelcast</groupId>

```



```
1 package org.i2i;
2 import com.hazelcast.config.Config;
3 import com.hazelcast.config.SerializationConfig;
4 import com.hazelcast.config.SerializerConfig;
5 import com.hazelcast.core.Hazelcast;
6 import com.hazelcast.core.HazelcastInstance;
7
8 import java.util.Map;
9
10 public class Member {
11
12     public static void main(String[] args) {
```

Run Member x

Tem 04, 2025 3:08:55 0S com.hazelcast.internal.partition.impl.PartitionStateManager  
INFO: [172.17.16.1]:5701 [dev] [5.3.0] Initializing cluster partition table arrangement...  
10,000 adet Person nesnesi eklendi.  
Person(name=Name\_0)  
Person(name=Name\_1)  
Person(name=Name\_2)  
Person(name=Name\_3)  
Person(name=Name\_4)  
Person(name=Name\_5)  
Person(name=Name\_6)  
Person(name=Name\_7)  
Person(name=Name\_8)  
Person(name=Name\_9)  
Tem 04, 2025 3:08:56 0S com.hazelcast.core.LifecycleService  
INFO: [172.17.16.1]:5701 [dev] [5.3.0] [172.17.16.1]:5701 is SHUTTING\_DOWN  
Tem 04, 2025 3:08:56 0S com.hazelcast.internal.partition.impl.MigrationManager