

Exercise 5.1 – Object Mapping and Annotations

This exercise provides you with hands on experience using object mapping annotations.

In this exercise, you will:

Retrieve Video instances from the database using the Mapper class.

Step 1:

- Navigate to the following file in the IDE:
 ~/session3/src/test/java/com/datastax/training/killrvideo/dao/cassandra/MapperVideo
 DAOTest.java
- 2. This is a simple class that adds a video and then uses the soon-to-be implemented getVideo() method.

Step 2:

- Navigate to the following file in the IDE:
 ~/session3/src/main/java/com/datastax/training/killrvideo/model/Video.java
- 2. Add the appropriate annotations to the Video class to make it compatible with the Mapper.

```
package com.datastax.training.killrvideo.model;
import com.datastax.driver.mapping.annotations.*;
import java.nio.ByteBuffer;
import java.util.*;
@Table(name = "videos", readConsistency = "LOCAL_ONE", writeConsistency = "LOCAL_QUORUM")
public class Video {
    @PartitionKey
    @Column(name = "video_id")
```

```
private UUID videoId;
@Column(name = "description")
private String description;
@Column(name = "title")
private String title;
@Column(name = "type")
private String type;
@Column(name = "url")
private String url;
@Column(name = "release date")
private Date releaseDate;
@Column(name = "release_year")
private int releaseYear;
@Column(name = "avg_rating")
private float avgRating;
@Column(name = "mpaa_rating")
private String mpaaRating;
@Column(name = "tags")
private Set<String> tags;
@Column(name = "preview_thumbnail")
private ByteBuffer previewThumbnail;
@Column(name = "genres")
private Set<String> genres;
@Column(name = "user_id")
private UUID userId;
// gets/sets etc.
```

Step 3:

- 1. Navigate to the following file within the IDE: ~/session3/src/main/java/com/datastax/training/killrvideo/model/dao/cassandra/Cass andraVideoDAO.java
- 2. Scroll down to the getVideo() function. Notice it currently only returns *null*.
- 3. Change this function to use the Mapper instance named mapper found in the base class AbstractMapperDAO. AbstractMapperDAO has already created the mapper instance for you.

```
@Override
public Video getVideo(UUID video_id) {
    return mapper.get(video_id);
}
```

Step 4:

- 1. Note the simplicity of the getVideo() function.
- 2. Go back to MapperVideoDAOTest.java. Put a breakpoint on the assertEquals line and debug testMapperGetVideo(). Then analyze the retreivedVideo object, which proves the mapper functioned properly.