

Spring Professional Exam Tutorial v5.0

Question 26

Question 26 - How do you define a Repository interface? Why is it an interface not a class?

To define Repository interface, you need to follow those steps:

- ▶ Create Java Interface that extends one of: `Repository`, `CrudRepository`, `PagingAndSortingRepository`, `JpaRepository`
- ▶ Create class with `@Entity` annotation
- ▶ Inside `@Entity` class, create a simple primary key annotated with `@Id` annotation or create class that will represent complex key annotated with `@EmbeddedId` annotation at field level and `@Embeddable` at key class definition level
- ▶ Use `@EnableJpaRepositories` to point out package to scan for Repositories

Repository interface is an interface, not a class for Spring Data to be able to use JDK Dynamic Proxy to intercept all calls to repository and also to allow creation of custom base repositories for every Dao based on `SimpleJpaRepository` configured at `@EnableJpaRepositories` level.

```
public interface EmployeeDao extends CrudRepository<Employee, Integer>
{
}
```

```
@Configuration
@EnableJpaRepositories(basePackages = {"com.project.dao"})
public class JpaConfiguration
...
```

```
@Entity
public class Employee {
    @Id
    private int id;
    private String firstName;
    private String lastName;
    ...
}
```

