What is @Repeatable and why should you like it?

Sometimes, you want to apply the same annotation multiple times. Before Java 8, the only way to do that was to use an additional annotation and provide an array of the annotations you want to apply as a value.

With Java 8, you can define an annotation as repeatable and apply it multiple times without any wrapper annotations.

Annotation	JavaDoc
AnyMetaDef	Used to provide metadata about
	an Any or ManyToAny mapping.
ColumnTransformer	Custom SQL expression used to
	read the value from and write a
	value to a column. Use for direct
	object loading/saving as well as
	queries. The write expression
	must contain exactly one '?'
	placeholder for the value. For
	example:
	read="decrypt(credit_card_num)"
	write="encrypt(?)"
FetchProfile	Define the fetching strategy
	profile.
Filter	Add filters to an entity or a target
FilterDef	entity of a collection.
FillerDer	Filter definition. Defines a name,
	default condition and parameter
FilterJoinTable	types (if any). Add filters to a join table
	collection.
GenericGenerator	Generator annotation describing
GenericGenerator	any kind of Hibernate generator
	in a generic (de-typed) manner.
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Which Hibernate annotations are repeatable?

@Repeatable annotations in Hibernate 5.2

Annotation	JavaDoc
JoinColumnOrFormula	Allows joins based on column or a
	formula. One of formula() or
	column() should be specified, but
	not both.
NamedNativeQuery	Extends NamedNativeQuery with
	Hibernate features.
Table	Complementary information to a
	table either primary or secondary.
Tuplizer	Define a tuplizer for an entity or a
	component.
TypeDef	A type definition. Much like Type,
	but here we can centralize the
	definition under a name and refer
	to that name elsewhere. The
	plural form is TypeDefs.

How to use @Repeatable annotations

With JPA and Hibernate versions before 5.2, you were not able to annotate an entity with multiple of the same annotations. If there was the need to do that, e.g. when you wanted to define multiple @NamedQuery for an entity, you had to provide them as the value to a @NamedQueries annotation.

```
@Entity
```

```
@NamedQueries({
```

```
@NamedQuery(name = "Book.findByTitle", query = "SELECT b
FROM Book b WHERE b.title = :title"),
```

```
@NamedQuery(name = "Book.findByPublishingDate", query =
"SELECT b FROM Book b WHERE b.publishingDate =
:publishingDate")
})
public class Book implements Serializable (
```

public class Book implements Serializable {

}

. . .

@Repeatable annotations in Hibernate 5.2

That's no longer required, if you use Hibernate's version of the @NamedQuery annotation or of any other annotation listed in the previous section. As you can see in the following code snippet, you can now add multiple org.hibernate.annotations.NamedQuery annotations directly to the entity.

```
@Entity
```

```
@NamedQuery(name = "Hibernate5Book.findByTitle", query =
"SELECT b FROM Hibernate5Book b WHERE b.title = :title")
```

```
@NamedQuery(name = "Hibernate5Book.findByPublishingDate",
query = "SELECT b FROM Hibernate5Book b WHERE
b.publishingDate = :publishingDate")
```

public class Hibernate5Book implements Serializable {

}

. . .