



Getting Started with Hibernate

Version 1.0.0.Alpha2

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Preface

Hibernate is an *Object/Relational Mapping* (ORM) solution for programs written in Java and other JVM languages.

While a strong background in SQL is not required to use Hibernate, a basic understanding of its concepts is useful - especially the principles of *data modeling*. Understanding the basics of transactions and design patterns such as *Unit of Work* are important as well.

Useful background resources

- [Data Modeling \(Wikipedia\)](#).
- [Data Modeling 101](#)
- [Java & Databases: An Overview of Libraries & APIs](#)
- [Unit of Work](#)

Chapter 1. Obtaining Hibernate NoSQL

Hibernate NoSQL is broken into a number of modules/artifacts under the `org.hibernate.nosql` group and depends on Hibernate ORM under the `org.hibernate.orm` group. The main artifact is named `hibernate-core` and then there is a module/artifact for every supported NoSQL database.



This guide uses 1.0.0.Alpha2 as the Hibernate NoSQL version for illustration purposes. Be sure to change this version, if necessary, to the version you wish to use.

We can declare a dependency on this artifact using [Gradle](#)

```
dependencies {
    implementation "org.hibernate.nosql:hibernate-neo4j:1.0.0.Alpha2"
}
```

or [Maven](#):

```
<dependency>
  <groupId>org.hibernate.nosql</groupId>
  <artifactId>hibernate-neo4j</artifactId>
  <version>1.0.0.Alpha2</version>
</dependency>
```

1.1. Hibernate NoSQL modules

As mentioned earlier, Hibernate NoSQL is broken into a number of modules with the intent of isolating transitive dependencies for the respective NoSQL database that is in use.

Table 1.1: API-oriented modules

hibernate-nosql-core	A JNoSQL implementation of Hibernate ORM
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Table 1.2: NoSQL database modules

hibernate-milvus	Support for the Milvus database
hibernate-neo4j	Support for the Neo4j database

1.2. Platform / BOM

Hibernate NoSQL also provides a platform (BOM in Maven terminology) module which can be used to align versions of the Hibernate NoSQL modules along with the versions of its libraries. The platform artifact is named `hibernate-platform`.

To apply the platform in Gradle

```
dependencies {
    implementation platform "org.hibernate.nosql:hibernate-platform:1.0.0.Alpha2"

    // use the versions from the platform
    implementation "org.hibernate.nosql:hibernate-neo4j"
    implementation "jakarta.transaction:jakarta.transaction-api"
}
```

See the [Gradle documentation](#) for capabilities of applying a platform.

To apply the platform (BOM) in Maven

```
<dependency>
  <groupId>org.hibernate.nosql</groupId>
  <artifactId>hibernate-neo4j</artifactId>
</dependency>
<dependency>
  <groupId>jakarta.transaction</groupId>
  <artifactId>jakarta.transaction-api</artifactId>
</dependency>
```

```
<dependencyManagement>
  <dependencies>
    <dependency>
      <groupId>org.hibernate.nosql</groupId>
      <artifactId>hibernate-platform</artifactId>
      <version>1.0.0.Alpha2</version>
      <type>pom</type>
      <scope>import</scope>
    </dependency>
  </dependencies>
</dependencyManagement>
```

1.3. Example sources

The bundled examples mentioned in this tutorial can be downloaded from [here](#).

Alternatively, the example source code can also be obtained from [Github](#)

Chapter 2. Credits

The full list of contributors to Hibernate ORM can be found on the [GitHub repository](#).

The following contributors were involved in this documentation:

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