**Primitive types:**

|  |  |  |
| --- | --- | --- |
| **Mapping type** | **Java type** | **ANSI SQL Type** |
| integer | int or java.lang.Integer | INTEGER |
| long | long or java.lang.Long | BIGINT |
| short | short or java.lang.Short | SMALLINT |
| float | float or java.lang.Float | FLOAT |
| double | double or java.lang.Double | DOUBLE |
| big\_decimal | java.math.BigDecimal | NUMERIC |
| character | java.lang.String | CHAR(1) |
| string | java.lang.String | VARCHAR |
| byte | byte or java.lang.Byte | TINYINT |
| boolean | boolean or java.lang.Boolean | BIT |
| yes/no | boolean or java.lang.Boolean | CHAR(1) ('Y' or 'N') |
| true/false | boolean or java.lang.Boolean | CHAR(1) ('T' or 'F') |

**Date and time types:**

|  |  |  |
| --- | --- | --- |
| **Mapping type** | **Java type** | **ANSI SQL Type** |
| date | java.util.Date or java.sql.Date | DATE |
| time | java.util.Date or java.sql.Time | TIME |
| timestamp | java.util.Date or java.sql.Timestamp | TIMESTAMP |
| calendar | java.util.Calendar | TIMESTAMP |
| calendar\_date | java.util.Calendar | DATE |

**Binary and large object types:**

|  |  |  |
| --- | --- | --- |
| **Mapping type** | **Java type** | **ANSI SQL Type** |
| binary | byte[] | VARBINARY (or BLOB) |
| text | java.lang.String | CLOB |
| serializable | any Java class that implements java.io.Serializable | VARBINARY (or BLOB) |
| clob | java.sql.Clob | CLOB |
| blob | java.sql.Blob | BLOB |

**JDK-related types:**

|  |  |  |
| --- | --- | --- |
| **Mapping type** | **Java type** | **ANSI SQL Type** |
| class | java.lang.Class | VARCHAR |
| locale | java.util.Locale | VARCHAR |
| timezone | java.util.TimeZone | VARCHAR |
| currency | java.util.Currency | VARCHAR |