# Example 13 - Native SQL Selects

This example shows how to run native SQL statements.

Native SQL shares the syntax with Regular SQL and Dynamic SQL. They can be combined all at once when creating SQL statements.

SQL selects can include <column> tags to force the Java name and Java type of the result set. When included they need to be included outside the CDATA section, if any.

## How to Run this example

The **Example 13** is included in the download package. To run this example please refer to the section How to Run the Examples above.

## Case #1: Limiting the number of returned rows

The SQL select uses the native SQL extension LIMIT <N> to limit the returned number of rows. The configuration file includes the following section:

<select java-class-name=*"NonVIPClient"*>

<![CDATA[

select \* from client

{\*

where vip = false

limit #{maxRows,javaType=java.lang.Integer,jdbcType=NUMERIC}

\*}

]]>

</select>

The SQL select can be run using the select(java.lang.Integer maxRows) Java method on the DAO NonVIPClient.

## Case #2: Using a non-standard SQL function

The SQL select to uses the SQL function IFNULL(value, value). The configuration file includes the following section:

<select java-class-name=*"VehiclePrice"*>

<![CDATA[

select id, ifnull(list\_price, '0') as price from vehicle

{\*

where brand = #{brandName,javaType=java.lang.String,jdbcType=VARCHAR}

\*}

]]>

</select>

The SQL select can be run using the select(java.lang.Integer maxRows) Java method on the DAO NonVIPClient.

## Case #3: Inserting on a native database column type

The SQL select to uses injects valued on a non-standard SQL syntax for the ARRAY of VARCHAR column type. The configuration file includes the following section:

<query java-method-name=*"insertPreferredColors"*>

<![CDATA[

insert into preferred\_colors (id, colors) values (

#{id,javaType=java.lang.Integer, jdbcType=NUMERIC},

(

#{color1,javaType=java.lang.String, jdbcType=VARCHAR},

#{color2,javaType=java.lang.String, jdbcType=VARCHAR},

#{color3,javaType=java.lang.String, jdbcType=VARCHAR}

)

)

]]>

</query>

The SQL select can be run using the insertPreferredColors(Integer id, String color1, String color2, String color3) Java method on the DAO GeneralOperations.