

# SQL Example

## SQL Example

### Available as of Camel 2.11

This example is located in the `examples/camel-example-sql` directory of the Camel distribution. There is a `README.txt` file with instructions how to run it.

If you use maven then you can easily compile and install the example from the command line:

```
mvn install
```

### About

This example shows how to exchange data using a shared database table.

The example has two Camel routes. The first route insert new data into the table, triggered by a timer to run every 5th second. The second route pickup the newly inserted rows from the table, process the row(s), and mark the row(s) as processed when done; to avoid picking up the same rows again.

### Implementation

In the `camel-context.xml` file in the `src/main/resources/META-INF/spring` folder we have the Spring XML file to setup and configure the database, as well the [CamelContext](#).

```
{snippet:id=e1|lang=xml|title=Setting up database|url=camel/trunk/examples/camel-example-sql/src/main/resources/META-INF/spring/camel-context.xml}
```

And then in the same file we setup our Camel application. At first we have a `orderBean` that we use in the routes to generate new orders and process orders as well.

```
{snippet:id=e2|lang=xml|title=Camel application|url=camel/trunk/examples/camel-example-sql/src/main/resources/META-INF/spring/camel-context.xml}
```

Notice how we have externalized the SQL queries, and use Camels [property placeholder](#) to refer to the `sql.properties` file.

Using named query parameters

Notice in the SQL queries below we use named parameters which must start with prefix `:'#'` and then the name, eg `:#amount`. Then Camel will bind that parameter with the given name, from the message body (if its a `java.util.Map`) or from a message header with the name. If none parameter could be found, Camel throws an exception.

```
{snippet:id=e1|title=SQL queries|url=camel/trunk/examples/camel-example-sql/src/main/resources/sql.properties}
```

### Running the example

This example can be run from the command line

```
mvn camel:run
```

Press `ctrl + c` to stop the example.

### See Also

- [Examples](#)
- [SQL Component](#)
- [Hibernate Example](#)