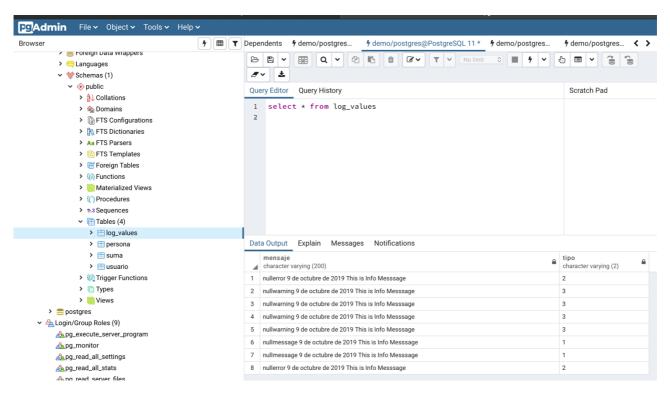
## Code Review / Refactoring exercise

Please review the following code snippet. Assume that all referenced assemblies have been properly included.

The code is used to log different messages throughout an application. We want the ability to be able to log to a text file, the console and/or the database. Messages can be marked as message, warning or error. We also want the ability to selectively be able to choose what gets logged, such as to be able to log only errors or only errors and warnings.

- 1. If you were to review the following code, what feedback would you give? Please be specific and indicate any errors that would occur as well as other best practices and code refactoring that should be done.
- 2. Rewrite the code based on the feedback you provided in question 1. Please include unit tests on your code.
- Simulación tipos de eventos error, warning y mensaje.



error

## Warning

```
logFile.txt
k?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE log SYSTEM "logger.dtd">
<log>
<record>
  <date>2019-10-09T15:52:21</date>
  <millis>1570654341512/millis>
  <sequence>0</sequence>
  <logger>MyLog</logger>
  <level>SEVERE</level>
  <class>com.RetoConsola.lobLogger</class>
 <method>LogMessage</method>
  <thread>1</thread>
 <message>nullerror 9 de octubre de 2019 This is Info Messsage</message>
<record>
  <date>2019-10-09T15:52:21</date>
  <millis>1570654341513</millis>
  <sequence>1</sequence>
  <logger>MyLog</logger>
 <level>INFO</level>
  <class>com.RetoConsola.JobLogger</class>
  <method>LogMessage</method>
  <thread>1</thread>
  <message>This is Info Messsage
</record>
</log>
```

```
logFile.txt
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE log SYSTEM "logger.dtd">
<log>
<record>
  <date>2019-10-09T15:53:56</date>
  <millis>1570654436173/millis>
  <sequence>0</sequence>
  <le><logger>MyLog</logger></le><level>WARNING</level>
 <class>com.RetoConsola.JobLogger</class>
 <method>LogMessage</method>
<thread>1</thread>
 <message>nullwarning 9 de octubre de 2019 This is Info Messsage/message>
 /record>
<record>
  <date>2019-10-09T15:53:56</date>
  <millis>1570654436174/millis>
  <sequence>1</sequence>
 <le><logger>MyLog</logger></le><level>INFO</level>
  <class>com.RetoConsola.JobLogger</class>
  <method>LogMessage</method>
  <thread>1</thread>
  <message>This is Info Messsage
</record>
</log>
```

```
logFile.txt
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE log SYSTEM "logger.dtd">
<log>
<record>
   <date>2019-10-09T15:47:30</date>
   <millis>1570654050000</millis>
   <sequence>0</sequence>
   <le><logger>MyLog</logger><level>SEVERE</level>
   <class>com.RetoConsola.JobLogger</class>
<method>LogMessage</method>
   <thread>1</thread>
   <message>java.lang.Exception: Error or Warning or Message must be specified
    at com.RetoConsola.JobLogger.LogMessage(JobLogger.java:79)
    at com.RetoConsola.RetoConsolaApplication.main(RetoConsolaApplication.java:35)

<
<record>
   <date>2019-10-09T15:47:30</date>
<millis>1570654050001</millis>
   <sequence>1</sequence>
   <logger>MyLog</logger>
<level>INFO</level>
   <class>com.RetoConsola.JobLogger</class>
<method>LogMessage</method>
<thread>1</thread>
   <message>This is Info Messsage/message>
</record>
<record>
   <date>2019-10-09T15:47:30</date>
   <millis>1570654050001/millis>
   <sequence>1</sequence>
   <le><logger>MyLog</logger><level>INFO</level>
   <class>com.RetoConsola.JobLogger</class>
<method>LogMessage</method>
   <thread>1</thread>
   <message>This is Info Messsage/message>
</record>
```