

Database compatibility

This page is intended for people to share knowledge about running Activiti on particular databases

Problem with nullable columns on Sybase and Informix

<http://forums.activiti.org/en/viewtopic.php?t=1207&p=4976#p4976>

Postgres jdbc vs. DB version mismatch

Be sure to use the appropriate postgres version of JDBC-driver for your database, Postgres is sensitive to this.

Know exceptions when version mismatch:

Caused by:

```
org.activiti.engine.ActivitiException:  
couldn't parse 'XXX.bpmn20.xml': Content is  
not allowed in prolog.  
at  
org.activiti.engine.impl.util.xml.Parse.exec  
ute(Parse.java:136)  
at  
org.activiti.engine.impl.bpmn.parser.BpmnPar  
se.execute(BpmnParse.java:160)  
at  
org.activiti.engine.impl.bpmn.deployer.BpmnD  
eployer.deploy(BpmnDeployer.java:76)  
at  
org.activiti.engine.impl.db.DbRepositorySess  
ion.deploy(DbRepositorySession.java:65)  
at  
org.activiti.engine.impl.db.DbRepositorySess  
ion.resolveProcessDefinition(DbRepositorySes  
sion.java:195)
```

Beware of handling CLOB/BLOBS on postgres

When handling CLOB and BLOB's on postgres, default CLOB MyBatis type cannot be used, BINARY should be used instead.

```
<result property="bytes" column="BYTES_"
jdbcType="BINARY"/>
```

This exception occurs when type not handled properly

```
## Error querying database. Cause:
org.postgresql.util.PSQLException: Bad value
for type long : XXXXXXXX
```

*Be sure to check all statements that have postgres-specific counterparts (or any other DB) aren't referenced from within other mapped statements. These aren't aware of our database-specific behaviour. Here you should create an postgres-specific statement for the statement using it. Eg. association-select for byte-array entity using selectByteArrayById_postgres: *

```
<resultMap
id="historicVariableUpdateResultMap"
extends="historicDetailResultMap"
type="org.activiti.engine.impl.history.Histo
ricVariableUpdateEntity">
    <result property="name" column="NAME_"
javaType="String" jdbcType="VARCHAR" />
    ...
    <result property="longValue"
column="LONG_" jdbcType="BIGINT" />
    <association property="byteArrayValue"
        column="BYTEARRAY_ID_"
        javaType="org.activiti.engine.impl.runtime.B
```

```
byteArrayEntity"

    select="selectByteArrayById" />
</resultMap>
<resultMap
id="historicVariableUpdateResultMap_postgres"
" extends="historicDetailResultMap"
type="org.activiti.engine.impl.history.HistoricVariableUpdateEntity">
    <result property="name" column="NAME_"
javaType="String" jdbcType="VARCHAR" />
    ....
    <result property="longValue"
column="LONG_" jdbcType="BIGINT" />
        <association property="byteArrayValue"
            column="BYTEARRAY_ID_"

        javaType="org.activiti.engine.impl.runtime.ByteArrayEntity"
```

```
select="selectByteArrayById_postgres" />
</resultMap>
```

Tuning history

If you're using history, it can be tuned by adding the following index (oracle dialect)

```
create index ACT_IDX_HI_EXEC_ACT_ID on
ACT_HI_ACTINST (EXECUTION_ID_, ACT_ID_)
tablespace PRODF;
```

If you think this index should be added to the installation scripts, vote for [ACT-1231](#)