

Examples

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DDML Document Example

The following example presents a possible DDML document.

```
<tables-definition product="CD"><!-- CD for customer data -->
<!-- example for a timeslice statistics level table for the Customer's J2EE data -->
  <table-definition name="PW_JECD_CUSTOMER_DATA_T" type="STATISTICS" filterable="TRUE" oracle-storage-clause="
NEXT 4M PCTINCREASE 0">
    <column-definition name="JECD_TIMESTAMP" data-type="TIMESTAMP" null="FALSE" type="DATE" /><!--
mandatory column -->
    <column-definition name="JECD_PWHG_ID" data-type="INTEGER" data-length="4" null="FALSE" type="
IDENTIFIER" default="0"/><!-- mandatory column -->
    <column-definition name="JECD_MINUTES_COUNT_SUM" data-type="INTEGER" data-length="9" null="FALSE" type="
SUM" default="1"/><!-- mandatory column -->
    <column-definition name="JECD_PWII_INSTANCE_ID" data-type="INTEGER" data-length="9" null="FALSE" type="
IDENTIFIER"/><!-- mandatory column -->
    <column-definition name="JECD_RECIEVED_TIMESTAMP" data-type="TIMESTAMP" null="FALSE" default="CURRENT
TIMESTAMP" type="DATE"/><!-- mandatory column -->
    <column-definition name="JECD_IS_SERVICE_REQUEST" data-type="BOOLEAN" null="FALSE" type="IDENTIFIER"
default="FALSE" baseline-value="F"/><!-- identifier definition -->
    <column-definition name="JECD_THRESHOLD_BREACH" data-type="BOOLEAN" null="TRUE" type="IDENTIFIER"/><!--
identifier definition -->
    <column-definition name="JECD_TYPE" data-type="VARCHAR" data-length="254" null="FALSE" type="
IDENTIFIER" /><!-- identifier definition -->
    <column-definition name="JECD_RESPONSE_TIME_SUM" data-type="FLOAT" data-length="15" null="FALSE" type="
SUM" default="0"/><!-- counter definition -->
    <column-definition name="JECD_HIT_COUNT_SUM" data-type="INTEGER" data-length="19" null="FALSE" type="
SUM" default="0"/><!-- counter definition -->
    <column-definition name="JECD_INTERNAL_TIME_SUM" data-type="FLOAT" data-length="15" null="FALSE" type="
SUM" default="0"/><!-- counter definition -->
    <column-definition name="JECD_JDBC_TIME_AVG" data-type="FLOAT" data-length="15" null="FALSE" type="AVG"
default="0"/><!-- counter definition -->
    <column-definition name="JECD_ACTIVE_THREADS_AVG" data-type="FLOAT" data-length="15" null="TRUE" type="
AVG"/><!-- counter definition -->
    <index-definition name="IW_JECD_01_T" unique="FALSE" primary="FALSE" clustered="FALSE" columns-order="
JECD_PWII_INSTANCE_ID ASC JECD_RECIEVED_TIMESTAMP ASC JECD_TIMESTAMP ASC" oracle-storage-clause="NEXT 4M
PCTINCREASE 0"/><!-- index definition -->
    <summary-hour name="PW_JECD_CUSTOMER_DATA_H"/><!-- indication to summarize the data at an hourly level
-->
    <summary-day name="PW_JECD_CUSTOMER_DATA_D"/><!-- indication to summarize the data at a daily level -->
    <summary-week name="PW_JECD_CUSTOMER_DATA_W"/><!-- indication to summarize the data at a weekly level --
>
    <summary-month name="PW_JECD_CUSTOMER_DATA_M"/><!-- indication to summarize the data at a monthly level
-->
    <baseline name="PW_JECD_CUSTOMER_DATA_B" oracle-additional-clause="NOLOGGING"/><!-- indication to
create a baseline for that table -->
  </table-definition>
<!-- example for a non-statistics table that should be part of the PMDB schema -->
  <table-definition name="PW_ORSR_STRUCTURE_CONTROL" type="PWOTHER" oracle-storage-clause="initial 1M next 10M
minextents 1 maxextents unlimited pctincrease 0">
    <column-definition name="ORSR_DATABASE_ID" data-type="VARCHAR" data-length="255" null="TRUE"/>
    <column-definition name="ORSR_UPDATE_START" data-type="TIMESTAMP" null="TRUE"/>
    <column-definition name="ORSR_STATUS" data-type="VARCHAR" data-length="30" null="TRUE"/>
    <column-definition name="ORSR_ROW_TYPE" data-type="VARCHAR" data-length="2" null="TRUE"/>
    <column-definition name="ORSR_PURGE_DATE" data-type="TIMESTAMP" null="TRUE"/>
    <column-definition name="ORSR_LAST_PURGED_TABLE" data-type="VARCHAR" data-length="30" null="TRUE"/>
  </table-definition>
<!-- example for a view creation -->
  <view-definition name="ACTIVE_STATUS_VIEW" view-columns="DATABASE_ID DATABASE_STATUS" as-query="SELECT
ORSR_DATABASE_ID,ORSR_STATUS FROM PW_ORSR_STRUCTURE_CONTROL WHERE ORSR_STATUS='ACTIVE'"/>
<!-- example for DDL/DML commands that should be performed during installation -->
  <ddl-definition dbms="ORACLE" version="" event="INSTALL" statement="create sequence PRECISE_STATEMENT_ID_SEQ"
/>
<!-- example for DDL/DML commands that should be performed during uninstallation -->
  <ddl-definition dbms="ORACLE" version="" event="UNINSTALL" statement="drop sequence PRECISE_STATEMENT_ID_SEQ"
/>
</tables-definition>
```

Retrieve Request Example

The following example sends one query to retrieve data.

```
<queries connection-pool="pw" single-connection="true">
  <free-query id="501">
    <!-- meta-data is optional -->
    <meta-data>
      <fetch-rows value="10000" /> <!-- number of rows to retrieve -->
      <skip-rows value="0" /> <!-- number of rows to skip -->
      <timeout value="30" /> <!-- maximum time to wait for database execution -->
    </meta-data>
    <query-text value="SELECT * FROM PS_PWTR_TABLE_RANGE WHERE PWTR_TABLE_NAME = ?" />
    <bind-variable id="1" value="PW_NTAC_ACTIONS_M" type="string" />
  </free-query>
</queries>
```

The following example sends several queries to retrieve data.

```
<queries connection-pool="pw" single-connection="false"> <!-- with single-connection set to false, queries are
performed in parallel -->
  <free-query id="601">
    <!-- meta-data is optional -->
    <meta-data>
      <fetch-rows value="1" /> <!-- number of rows to retrieve (fetching only one row) -->
      <skip-rows value="0" /> <!-- number of rows to skip -->
      <timeout value="30" /> <!-- Maximum time to wait for database execution -->
    </meta-data>
    <!-- bind variables are optional -->
    <query-text value="SELECT * FROM PW_PWII_INSTANCE_ID" />
  </free-query>
  <free-query id="602">
    <!-- meta-data is optional -->
    <meta-data>
      <timeout value="45" /> <!-- Maximum time to wait for database execution -->
    </meta-data>
    <query-text value="UPDATE PS_PWSE_SCHEDULED_EVENTS SET PWSE_START_TIMESTAMP = SYSDATE+4/1440,
PWSE_STATUS = 'UPDATE' WHERE PWSE_ID = 6" />
  </free-query>
  <free-query id="603">
    <!-- meta-data is optional -->
    <meta-data>
      <timeout value="45" /> <!-- Maximum time to wait for database execution -->
    </meta-data>
    <query-text value="SELECT * FROM PS_PWTR_T" />
  </free-query>
  .
  .
  .
</queries>
```

Retrieve Response Examples

The following example shows a retrieve response to one query executed without errors.

```

<rowsets>
  <rowset id="501">
    <row rownum="1">
      <PWTR_PWII_ID>1005</PWTR_PWII_ID>
      <PWTR_TABLE_NAME>PW_NTAC_ACTIONS_M</PWTR_TABLE_NAME>
      <PWTR_START_TIMESTAMP></PWTR_START_TIMESTAMP> <!-- indication of null -->
      <PWTR_END_TIMESTAMP></PWTR_END_TIMESTAMP>
      <PWTR_LAST_PARTITION_TIMESTAMP>2008-08-01 00:00:00.0</PWTR_LAST_PARTITION_TIMESTAMP>
    </row>
    <row rownum="2">
      <PWTR_PWII_ID>1011</PWTR_PWII_ID>
      <PWTR_TABLE_NAME>PW_NTAC_ACTIONS_M</PWTR_TABLE_NAME>
      <PWTR_START_TIMESTAMP>2003-08-02 12:00:00.0</PWTR_START_TIMESTAMP>
      <PWTR_END_TIMESTAMP>2003-08-23 23:00:00.0</PWTR_END_TIMESTAMP>
      <PWTR_LAST_PARTITION_TIMESTAMP>2008-08-01 00:00:00.0</PWTR_LAST_PARTITION_TIMESTAMP>
    </row>
    <rowset-info>
      <affected-rows>2</affected-rows>
      <more-rows>false</more-rows> <!-- indication that all the rows were fetched -->
    </rowset-info>
    <error>
      <code>0</code> <!-- rowset level error indication that there were no errors with the query -->
    </error>
  </rowset>
  <error> <!-- rowsets level error, indication that there were no problems with the database connection -->
    <code>0</code>
  </error>
</rowsets>

```

The following example shows a retrieve response to several queries. Note that some queries have encountered an error during execution.

```

<rowsets>
  <rowset id="601">
    <row rownum="1">
      <PWII_ID>1005</PWII_ID>
      <PWII_INSTANCE_NAME>network_instance</PWII_INSTANCE_NAME>
      <PWII_TECHNOLOGY>NT</PWII_TECHNOLOGY>
      <PWII_SERVER>my_server</PWII_SERVER>
    </row>
    <rowset-info>
      <affected-rows>1</affected-rows>
      <more-rows>true</more-rows> <!-- indication that there are more rows to fetch -->
    </rowset-info>
    <error>
      <code>0</code> <!-- rowset level error indication that there were no errors with the query -->
    </error>
  </rowset>
  <rowset id="602">
    <rowset-info>
      <affected-rows>1</affected-rows>
      <more-rows>false</more-rows>
    </rowset-info>
    <error>
      <code>0</code> <!-- rowset level error indication that there were no errors with the query -->
    </error>
  </rowset>
  <rowset id="603">
    <error>
      <code>8200</code> <!-- indication that there was an error performing the query -->
      <description>com.precise.shared.retriever.RetrieverJDBCException: ERROR could not execute the sql
command in query id : 502 for sql text : SELECT * FROM PS_PWTR_T</description>
      <external-code>942</external-code>
      <external-description>ORA-00942: table or view does not exist</external-description>
    </error>
  </rowset>
  <error>
    <code>0</code>
  </error>
</rowsets>

```

The following example presents an error connecting to the database.

```

<rowsets>
  <error>
    <code>9100</code>
    <description>ERROR at statement 72000</description>
    <external-code>1034</external-code>
    <external-description>ORA-01034: ORACLE not available</external-description>
  </error>
</rowsets>

```

Load Request Example



Do NOT enter blanks, nor new lines between the tags.

The following example presents a request to load data.

```

<rowsets connection-pool="pw"><!-- the connection pool names should always be "pw" -->
  <rowset object="PW_NTAC_ACTIONS_T" single-commit="true"> <!--table name and indication to commit only after
all rows are loaded into PW -->
    <columns> <!-- the list of columns should be kept in the rows creation -->
      <column>NTAC_TIMESTAMP</column>
      <column>NTAC_ID1</column>
      <column>NTAC_CONSUMER_IP</column>
      <column>NTAC_REQUESTS_SUM</column>
      <column>NTAC_NETWORK_TIME_SUM</column>
      <column>NTAC_TIME1_SUM</column>
      <column>NTAC_STAT1_SUM</column>
      <column>NTAC_STAT2_SUM</column>
      <column>NTAC_SOURCE_ID</column>
      <column>NTAC_PWII_INSTANCE_ID</column>
      <column>NTAC_INSTANCE</column>
      <column>NTAC_SERVER</column>
      <column>NTAC_INSTANCE_GID</column>
      <column>NTAC_SERVER_GID</column>
      <column>NTAC_CONSUMER_IP_GID</column>
      <column>NTAC_RED_SUM</column>
      <column>NTAC_YELLOW_SUM</column>
      <column>NTAC_GREEN_SUM</column>
    </columns>
    <row rownum="1"><![CDATA[2212003-08-2811:30:00.0^21010.1.0.218^1910.1.1.94^17175.000^1621.600^150.
000^1514963^1820227220^12SQ^141009^210SAPSQLSRV2^210sapsqlsrv2^0^0^0^130.0^130.0^130.0]]></row>
    <row rownum="2"><![CDATA[2212003-08-2811:30:00.0^21010.1.0.218^1910.1.1.94^17175.000^1621.600^150.
000^1514963^1820227220^12SQ^141009^210SAPSQLSRV2^210sapsqlsrv2^0^0^0^130.0^130.0^130.0]]></row>
  </rowset>
</rowsets>

```

Load Response Examples

The following example presents a response to a successful load request.

```

<?xml version="1.0" encoding="UTF-8"?>
<rowsets>
  <error>
    <code>0</code> <!-- indication that there was no error connecting to the database -->
  </error>
  <rowset object="PW_NTAC_ACTIONS_T">
    <error>
      <code>0</code> <!-- indication that there was no error loading the data into the table -->
    </error>
  </rowset>
</rowsets>

```

The following example presents an error connecting to the database.

```

<?xml version="1.0" encoding="UTF-8"?>
<rowsets>
  <error>
    <code>9200</code>
    <description>Error connecting to the PW DB</description>
    <external-code>12154</external-code>
    <external-description>TNS:could not resolve service name</external-description>
  </error>
</rowsets>

```

The following example presents the response to a load request that has encountered an error during execution.

```
<?xml version="1.0" encoding="UTF-8"?>
<rowsets>
  <rowset object="PW_NTAC_ACTIONS_T">
    <error>
      <code>10200</code>
      <description>Error loading table PW_NTAC_ACTIONS_T</description>
      <external-code>1</external-code>
      <external-description>Unique index violation</external-description>
    </error>
  </rowset>
  <error>
    <code>0</code>
  </error>
</rowsets>
```

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