

This script uses XQuery and XMLTable to create two views that provide relational access to XML content. These views provide a typical MASTER-DETAIL relationship that can be used to access the contents of the XML using SQL. The views use XQuery to map scalar values from the XML into the columns defined by the view.

The first view provides access to values from elements and attributes that occur at most once per document. It can be considered the master table.

The second view provides access to values from the collection of Lineltem elements that can occur multiple times per document. It can be considered the detail. This view is created using nested XMLTable operators.

The first XMLTable operator projects out the values that form the 'primary key' for each document and the set of repeating elements. The set of repeating elements forms the input to the second XMLTable operator, which generates one row for each of the repeating elements.

Since the second XMLTable processes the output of the first XMLTable, a correlated join takes place. This ensures that the rows produced by the secondary XMLTable are joined with the corresponding rows from the primary XMLTable.