Question
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Searching messages and using EnsLibHL7.Message.RawContent in DTL

Problem to Solve: When an HL7 message hits a particular Process, I need to use the placer order number therein to query the messages that came in over the last 24 hours on a particular Service and grab discrete pieces of data that came in the latest message that has that placer order number.

The code I'm (*currently*) using looks like this:

```
<assign property='FullMessage'    action='set' value='"PID||TEST"' />
<sql>
    <![CDATA[SELECT Full_Message INTO :FullMessage, head.ID As ID, {fn RIGHT(%EXTERNA
L(head.TimeCreated),999 )} As TimeCreated,
head.SessionId As Session,
head.Status As Status,
CASE head.IsError WHEN 1 THEN 'Error' ELSE 'OK' END As Error,
head.SourceConfigName As Source,
head.TargetConfigName As Target,
head.TargetConfigName,
head.MessageBodyClassName As BodyClassname,
(SELECT LIST(PropValue) FROM EnsLib_HL7.SearchTable WHERE head.MessageBodyId = DocId
And PropId=7) As SchTbl_ORC2,
EnsLib_HL7.SearchTable.PropId As SchTbl_PropId,
head.MessageBodyId As BodyId,
EnsLib_HL7.Message.%ID As Body_ID,
EnsLib_HL7.Message.RawContent AS Full_Message
FROM Ens.MessageHeader head, EnsLib_HL7.SearchTable, EnsLib_HL7.Message
WHERE Head.TimeCreated >= DATEADD(day, -1, GETDATE())
AND Head.TimeCreated <= GETDATE()
AND ((head.SourceConfigName = 'SITE ORM-ORU Inbound')
AND (head.TargetConfigName = 'SITE ORM 1 PreProcessor')
AND head.MessageBodyClassName=(('EnsLib.HL7.Message'))
AND head.MessageBodyId = EnsLib_HL7.SearchTable.DocId
AND EnsLib_HL7.SearchTable.PropId = 6
AND EnsLib_HL7.SearchTable.PropValue = '1234567890'
AND head.MessageBodyClassName='EnsLib.HL7.Message'
AND head.MessageBodyId=EnsLib_HL7.Message.%ID)
ORDER BY head.ID Desc
    ]]></sql>

<assign property='target.{PID:2}'   action='set' value='..Piece(..Piece(FullMessage,"
PID",2),"|",3)' />
```

The Issues:

- The variable FullMessage does not populated, I just get "TEST" in target{PID:2}.
- My query does not grab the latest message. I tried using MAX and GREATEST on the head.ID and TimeCreated, but it didn't work.

- I need to swap out the hard-coded search table value for a :placerOrderNumber variable, but one problem at a time.
- If I remove "FullMessage INTO :FullMessage" piece, the query runs fine in SQL (aside from getting multiple results)

Any help from the team would be greatly appreciated, and if I'm going about this all wrong please do let me know.

#DTL #Message Search #SQL #Ensemble
Product version: IRIS 2020.1