Vector

Using SQL Queries
to access and extract data from
the Asset Manager Pro Database

OVERVIEW

Accessability to asset data has always been a baseline for Asset Manager Pro. The database tables are published in the online and PDF documentation.

Some larger customers with their own DBA resources have high levels of SQL expertise and have created a lot of added value in their AM Pro installations by exploiting asset data within other business applications.

This Tech Note is intended to promote awareness of the availability of the data and encourage its greater use.

Vector's AM Pro support group is available to give advice on using SQL queries to access the database, and will write queries for you. Complex requirements may be delivered under Professional Services terms.

A simple query to identify all Windows 7 machines:

SELECT DISTINCT NODES.NODENAME

FROM

    NODES

WHERE

(

NODES.OSNAME like '%Windows 7%'

)

A simple query to identify all 32 bit operating systems:

SELECT DISTINCT NODES.NODENAME

FROM

    NODES

WHERE

(

not(NODES.OSNAME like '%x64%')

)

A query to list all computers that are virtual machines:

SELECT DISTINCT NODES.NODENAME

FROM

    NODES,

    HWUPDATE,

    HWBUS

WHERE

  (NODES.NODENAME=HWUPDATE.NODENAME) AND

  (HWBUS.HWDATE=HWUPDATE.HWDATE) AND

(HWBUS.NODENAME=HWUPDATE.NODENAME)

AND

(

HWBUS.HWNAME like '%Virtual%' OR

HWBUS.HWNAME like '%VMware%'

)

A query that identifies which clients which have not pushed asset data to the server in the last 30 days:

SELECT DISTINCT NODES.NODENAME, NODES.CPU,

NODES.CPUSPEED,

NODES.TOTMEMORY, NODES.NETADDR,

NODES.DEPT, NODES.OWNERNAME,

NODES.OWNERTELE FROM NODES, HWUPDATE

WHERE CREATEDATE < '$MM/DD/YY(-30)$'

AND NODES.NODENAME = HWUPDATE.NODENAME

All four of these queries could be generated and copied from the SQL Wizard that is available to support Dynamic Group creation in Asset Manager Pro. Use the Natural Language editor to create your query, then View SQL.

SQL to identify Windows XP and Win Server 2003 with serial number, state, region, bios and system date. This query uses certain fields, like LOC_REGION, that are included in the latest version of AM Pro but are currently hidden while we evolved new functionality with this customer's collaboration. The fields will become fully public in our planned v7 release as part of new Geographical/Regional breakdown functionality.

```
SELECT dbo.Nodes.[NODENAME] AS MAINNODENAME,

[OSNAME],

[dbo].[LOC_REGION].[Name] AS 'Region',

dbo.LOC_STATE.Name AS 'State',

HWMAIN.PCSERIALNUM, BIOSSYSDATE

FROM [dbo].[NODES]


JOIN dbo.LOC_REGION

ON dbo.LOC_REGION.OBJECTID =

dbo.[NODES].FKLOC_REGION

JOIN dbo.LOC_STATE

ON dbo.NODES.FKLOC_STATE =

dbo.LOC_STATE.OBJECTID

JOIN dbo.HWMAIN

ON dbo.Nodes.NODENAME = dbo.HWMAIN.NODENAME


WHERE (osname like 'Windows XP%' or

osname like 'Windows Server 2003%')

AND HWMAIN.HWDATE = (

SELECT TOP 1 HWMAIN.HWDATE FROM HWMAIN

WHERE HWMAIN.NODENAME=NODES.NODENAME

ORDER BY HWMAIN.HWDATE DESC )
```

For rapid assistance with your SQL queries: support@vector-networks.com

SQL to identify Office 2003 with serial number, state, region, bios and system date. As well as using the new Geographic/Location fields, this query has conditions using keywords "web" and "interop" to ensure the search will not get confused with an Office 2003 web add-on.

```
SELECT DISTINCT dbo.NODES.[NODENAME],

[PACKAGE],

[dbo].[LOC_REGION].[Name] AS 'Region',

dbo.LOC_STATE.Name AS 'State', PCSERIALNUM,

BIOSSYSDATE FROM [dbo].[NODES]


JOIN dbo.LOC_REGION

ON dbo.LOC_REGION.OBJECTID =

dbo.[NODES].FKLOC_REGION

JOIN dbo.LOC_STATE

ON dbo.NODES.FKLOC_STATE =

dbo.LOC_STATE.OBJECTID

JOIN dbo.REGAPPS

ON [dbo].[NODES].[NODENAME] =

dbo.REGAPPS.NODENAME

JOIN dbo.HWMAIN

ON dbo.Nodes.NODENAME = dbo.HWMAIN.NODENAME

JOIN (Select Nodename, MAX(HWMAIN.BIOSSYSDATE)

as BIOSDate, MAX

(HWMAIN.HWDATE) as HWDATE from HWMAIN


GROUP BY NODENAME) AS SUB

ON dbo.NODES.NODENAME = sub.NODENAME

WHERE PACKAGE like '%Office%' AND

PACKAGE like '%2003%' AND

PACKAGE not like '%web%' AND

PACKAGE not like '%interop%' AND

PKGSTATUS <> 'Removed' AND

BIOSSYSDATE = sub.BIOSDate AND

HWMAIN.HWDATE = sub.HWDATE
```