

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

OVERVIEW

Accessibility 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, BIOSYSYDATE
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 )
```

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,
BIOSYSYDATE 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.BIOSYSYDATE)
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
BIOSYSYDATE = sub.BIOSDate AND
HWMAIN.HWDATE = sub.HWDATE
```

**For rapid assistance with your SQL queries:
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