

Manitou Core - SQL Query - Collect Hourly Signal Data for 30 Days

01/02/2024 6:30 pm EST

This query pulls signal data for a month and does it for each hour of each day.

This was built by a customer.

```
use MANITOU
SELECT CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),101) + ' - ' + DATENAME(DW,(
CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME))) 'Date',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '0
0:00:00' AND '00:59:59' THEN 1 ELSE 0 END) 'Hour 00',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '0
1:00:00' AND '01:59:59' THEN 1 ELSE 0 END) 'Hour 01',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '0
2:00:00' AND '02:59:59' THEN 1 ELSE 0 END) 'Hour 02',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '0
3:00:00' AND '03:59:59' THEN 1 ELSE 0 END) 'Hour 03',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '0
4:00:00' AND '04:59:59' THEN 1 ELSE 0 END) 'Hour 04',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '0
5:00:00' AND '05:59:59' THEN 1 ELSE 0 END) 'Hour 05',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '0
6:00:00' AND '06:59:59' THEN 1 ELSE 0 END) 'Hour 06',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '0
7:00:00' AND '07:59:59' THEN 1 ELSE 0 END) 'Hour 07',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '0
8:00:00' AND '08:59:59' THEN 1 ELSE 0 END) 'Hour 08',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '0
9:00:00' AND '09:59:59' THEN 1 ELSE 0 END) 'Hour 09',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '1
0:00:00' AND '10:59:59' THEN 1 ELSE 0 END) 'Hour 10',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '1
1:00:00' AND '11:59:59' THEN 1 ELSE 0 END) 'Hour 11',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '1
2:00:00' AND '12:59:59' THEN 1 ELSE 0 END) 'Hour 12',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '1
3:00:00' AND '13:59:59' THEN 1 ELSE 0 END) 'Hour 13',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '1
4:00:00' AND '14:59:59' THEN 1 ELSE 0 END) 'Hour 14',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '1
5:00:00' AND '15:59:59' THEN 1 ELSE 0 END) 'Hour 15',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '1
6:00:00' AND '16:59:59' THEN 1 ELSE 0 END) 'Hour 16',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '1
7:00:00' AND '17:59:59' THEN 1 ELSE 0 END) 'Hour 17',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '1
8:00:00' AND '18:59:59' THEN 1 ELSE 0 END) 'Hour 18',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '1
9:00:00' AND '19:59:59' THEN 1 ELSE 0 END) 'Hour 19',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '2
0:00:00' AND '20:59:59' THEN 1 ELSE 0 END) 'Hour 20',
SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '2
1:00:00' AND '21:59:59' THEN 1 ELSE 0 END) 'Hour 21'
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1:00:00' AND '21:59:59' THEN 1 ELSE 0 END) 'Hour 21',
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SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '2  
2:00:00' AND '22:59:59' THEN 1 ELSE 0 END) 'Hour 22',
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SUM (CASE WHEN (CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),108)) BETWEEN '2  
3:00:00' AND '23:59:59' THEN 1 ELSE 0 END) 'Hour 23'
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```
FROM CLOG201502 C JOIN CUSTOMER -- replace this with the month you want to seek
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ON C.SERIALNO = CUSTOMER.SERIALNO
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JOIN CONTACT ON CUSTOMER.CONTID = CONTACT.CONTID
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WHERE C.EVTYPE = 1
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```
--AND (REPLACE(@DateFrom, ' ', '') = '' OR @DateFrom IS NULL OR (CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATET  
IME)) BETWEEN @DateFrom AND @DateTo)
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```
GROUP BY CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),101) + ' - ' + DATENAME(D  
W,(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)))
```

```
ORDER BY CONVERT(nvarchar(30),(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)),101) + ' - ' + DATENAME(D  
W,(CAST (DATEADD(MINUTE, -300, C.EVDATE) AS DATETIME)))
```