PME2020 如何在 SSMS 中查询设备下所有存储的测量量有哪些

问题描述：

如何在 SSMS 中查询设备下所有存储的测量量有哪些

解决方案：

步骤如下：

方法一

1. 打开 SSMS（若未安装，可到微软官网下载），连接到数据库。

2. 展开数据库 - ION_Data - 表，在表 dbo.Source 上右键选择前 1000 行，查询设备 ID，本例以设备 Incoming1 为例进行说明，其 ID 为 6。

```
/****** SSMS 的 SelectTopNRows 命令的脚本  ******/
SELECT TOP (1000) [ID]
      ,[Name]
      ,[NamespaceID]
      ,[SourceTypeID]
      ,[TimeZoneID]
      ,[Description]
      ,[Signature]
      ,[DisplayName]
  FROM [ION_Data].[dbo].[Source]
```

100 %

结果 消息

	ID	Name	NamespaceID	SourceTypeID	TimeZoneID	Description	Signature	DisplayName
1	2	QUERYSERVER.PME910105	1	2	1	NULL	n/a	QUERYSERVER.PME910105
2	3	VIP.PQADVISOR	1	3	1	NULL	n/a	VIP.PQADVISOR
3	4	VIP.DDD	1	3	1	NULL	n/a	VIP.DDD
4	5	VIP.DEFAULT	1	3	1	NULL	n/a	VIP.DEFAULT
5	6	MSB1.Incoming1	1	4	1	NULL	PQ-9999A999-99	MSB1.Incoming1
6	8	MSB1.PM2225C	1	5	1	NULL	NULL	MSB1.PM2225C

3. 新建一个查询，输入以下脚本，修改最后的[Source].[ID]值，此处以[Source].[ID]=6 为例。

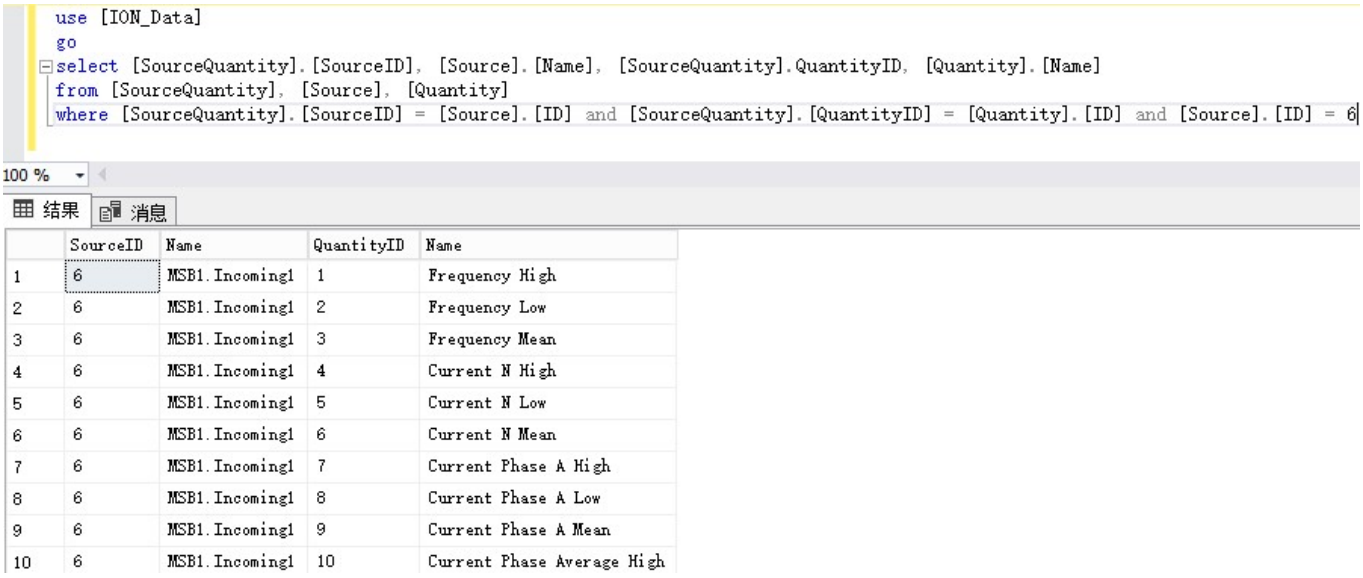
```
use [ION_Data]

go

select [SourceQuantity].[SourceID], [Source].[Name], [SourceQuantity].QuantityID, [Quantity].[Name]

from [SourceQuantity], [Source], [Quantity]

where [SourceQuantity].[SourceID] = [Source].[ID] and [SourceQuantity].[QuantityID] = [Quantity].[ID] and
[Source].[ID] = 6
```



```
use [ION_Data]
go
select [SourceQuantity].[SourceID], [Source].[Name], [SourceQuantity].QuantityID, [Quantity].[Name]
from [SourceQuantity], [Source], [Quantity]
where [SourceQuantity].[SourceID] = [Source].[ID] and [SourceQuantity].[QuantityID] = [Quantity].[ID] and [Source].[ID] = 6
```

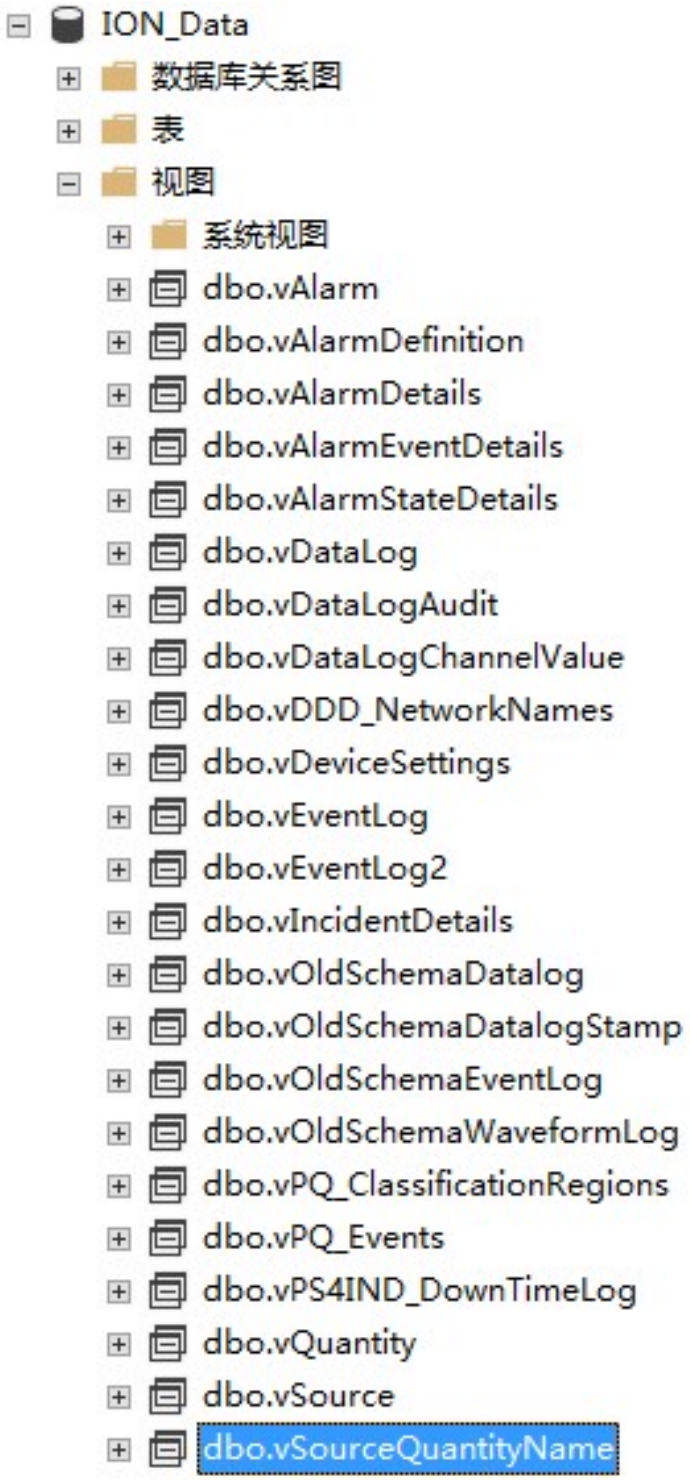
100 %

结果 消息

	SourceID	Name	QuantityID	Name
1	6	MSB1.Incoming1	1	Frequency High
2	6	MSB1.Incoming1	2	Frequency Low
3	6	MSB1.Incoming1	3	Frequency Mean
4	6	MSB1.Incoming1	4	Current N High
5	6	MSB1.Incoming1	5	Current N Low
6	6	MSB1.Incoming1	6	Current N Mean
7	6	MSB1.Incoming1	7	Current Phase A High
8	6	MSB1.Incoming1	8	Current Phase A Low
9	6	MSB1.Incoming1	9	Current Phase A Mean
10	6	MSB1.Incoming1	10	Current Phase Average High

方法二

1. 在 ION_Data 下的视图 dbo.vSourceQuantityName 上单击右键选择前 1000 行



2. 在脚本末行通过 SourceID 来过滤所需找看的设备的测量量

```
where SourceID = 6
```

```
/****** SSMS 的 SelectTopNRows 命令的脚本  ******/
SELECT TOP (1000) [SourceID]
      ,[SourceName]
      ,[QuantityID]
      ,[QuantityName]
      ,[MinTimestampUtc]
      ,[MaxTimestampUtc]
  FROM [ION_Data].[dbo].[vSourceQuantityName]
where SourceID = 6
```

100 %

结果 消息

	SourceID	SourceName	QuantityID	QuantityName	MinTimestampUtc	MaxTimestampUtc
1	6	MSB1.Incoming1	1	Frequency High	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
2	6	MSB1.Incoming1	2	Frequency Low	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
3	6	MSB1.Incoming1	3	Frequency Mean	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
4	6	MSB1.Incoming1	4	Current N High	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
5	6	MSB1.Incoming1	5	Current N Low	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
6	6	MSB1.Incoming1	6	Current N Mean	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
7	6	MSB1.Incoming1	7	Current Phase A High	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
8	6	MSB1.Incoming1	8	Current Phase A Low	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
9	6	MSB1.Incoming1	9	Current Phase A Mean	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
10	6	MSB1.Incoming1	10	Current Phase Average High	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
11	6	MSB1.Incoming1	11	Current Phase Average Low	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
12	6	MSB1.Incoming1	12	Current Phase Average Mean	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000
13	6	MSB1.Incoming1	14	Current Phase B High	2021-01-05 04:45:00.0000000	2021-04-15 10:30:00.0000000