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Pulling PSE Outage Data Into SQL Server

As part of documenting the craziness of this storm I have created a script that I run every 5 minutes that pushes data into a SQL Server database. Here is how it works, in the TSQL code I hit the PSE outage webservice url and pull the count of customer that are without power. I then insert it into a table.

```
DECLARE @Object as Int;  DECLARE @ResponseText as Varchar(8000);  DECLARE
 @url as NVARCHAR(4000);  DECLARE @TABLEVAR TABLE (responseXml VARCHAR(MA
X))  DECLARE @Result INT;     SET @url = 'https://www.pse.com/api/sitecor
e/OutageMap/AnonymoussMapListView';      Exec sp_OACreate 'MSXML2.XMLHTTP
', @Object OUT;  Exec sp_OAMethod @Object, 'open', NULL, 'get', @url,'fal
se';  EXEC @Result = sp_OAMethod @Object, 'setResquestHeader', NULL, 'Con
tent-Type', 'application/json'  EXEC sp_OAMethod @Object, 'send', null;
    INSERT INTO @TABLEVAR  EXEC @Result = sp_OAGetProperty @Object, 'resp
onseText'--, @Response OUT        select TOP 1 @ResponseText  = responseX
ML FROM @TABLEVAR;        set @responseText = substring(@responseText, 11
, 200);  set @responseText = substring(@responseText, 0, charindex('}', @
responseText) + 1);      DECLARE @outageCount INTEGER = 0;  DECLARE @cust
omersAffected INTEGER = 0;     select @outageCount  = value  from openjso
n(@responseText)  where [key] = 'OutageCount';    select @customersAffect
ed  = value  from openjson(@responseText)  where [key] = 'CustomerAfftect
edCount';      INSERT Into pseLog(outageCount, customers)            valu
es (@outageCount, @customersAffected);  Exec sp_OADestroy @Object;
```

Next I just put that on a SQL Server agent job to run every 5 minutes, and we now have data tracking over time on the number of power outages.

Now I need some way to report on it, so I created a SSRS report to pull the data I have been collecting, and here is what it looks like.

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Sometimes SSRS can just be the quickest way to pull data into a visual presentation.