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Posted by [BlackEric](#) on Wed, 22 Jun 2022 15:18:19 GMT  
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```
use testdb  
go
```

```
create table data  
(  
id int primary key identity(1,1),  
val_x int,  
val_x2 int  
)  
Go
```

```
declare @i int
```

```
Set @i = -10
```

```
while @i < 10
```

```
begin
```

```
    Insert Into data(val_x, val_x2)
```

```
    Values(@i, @i + 1)
```

```
    Set @i = @i + 1
```

```
end
```

```
Go
```

```
use testdb
```

```
go
```

```
declare @graph table(
```

```
    line geometry null
```

```
)
```

```
declare C cursor local fast_forward for
```

```
select
```

```
    val_x,
```

```
    val_x2
```

```
from data as i
```

```
open C
```

```
declare
```

```
    @val_x int,
```

```
    @val_x2 int,
```

```
    @line geometry
```

```
Select @val_x=val_x, @val_x2=val_x2 from data
```

```
--Insert Geometry Values
```

```
while 1=1
```

```
begin
```

```
    fetch next from C into @val_x, @val_x2
```

```
    if @@fetch_status <> 0 break;
```

```
    set @line = geometry::STPointFromText('POINT('+cast(@val_x as varchar(max))+ ' '+  
cast(@val_x2 as varchar(max)) +)', 0)
```

```
    insert into @graph([line])
```

```
    values(@line)
```

```
end
```

```
--Display data  
select * from @graph
```