



# Pivoting Data

Advanced SQL Puzzles

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Here is a stored procedure to automate the pivoting of data.

Link to the GitHub repository below

[AdvancedSQLPuzzles/Database Tips and Tricks/Pivoting Data](https://github.com/AdvancedSQLPuzzles/Database-Tips-and-Tricks-Pivoting-Data)

The pivot operator is a powerful feature in SQL, but often goes unused due to its complicated syntax. Here we simplify the syntax by encapsulating the pivot into a stored procedure. Under the hood the stored procedure uses XML and dynamic SQL to accomplish its goal.

Inside this GitHub repository you will find the following SQL scripts:

1) **SpPivotData.sql**

- A script that creates the stored procedure **SpPivotData**

2) **Pivot Data Examples.sql**

- Example usages of the **SpPivotData** stored procedure

The **Pivot Data Examples.sql** gives several great ways to use the **SpPivotData** function.

To get an overall idea of its most basic usage, see below:

```
EXEC dbo.SpPivotData
    @vQuery = 'dbo.TestPivot',
    @vOnRows = 'TransactionType',
    @vOnColumns = 'TransactionDate',
    @vAggFunction = 'SUM',
    @vAggColumns = 'TotalTransactions';
```

Will return the following:

Results		Messages				
	TransactionType	2019-01-01	2019-01-02	2019-01-03	2019-01-04	2019-01-05
1	ATM	2	4	6	8	NULL
2	Signature	10	NULL	12	14	16

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# The End