

Pivoting in SQL

Getting the monthly average high temperatures with month as columns and year as rows.

```
SELECT * FROM (  
  SELECT year(date) year, month(date) month, temp  
  FROM high_temps  
  WHERE date BETWEEN DATE '2015-01-01' AND DATE '2018-08-31'  
)  
PIVOT (  
  CAST(avg(temp) AS DECIMAL(4, 1))  
  FOR month in (  
    1 JAN, 2 FEB, 3 MAR, 4 APR, 5 MAY, 6 JUN,  
    7 JUL, 8 AUG, 9 SEP, 10 OCT, 11 NOV, 12 DEC  
  )  
)  
ORDER BY year DESC
```

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2018	49.7	45.8	54	58.6	70.8	71.9	82.8	79.1	null	null	null	null
2017	43.7	46.6	51.5	57.3	67	72.1	78.3	81.5	73.8	61.1	51.3	45.5
2016	49.1	53.6	56.4	65.9	68.8	73.1	76	79.5	69.6	60.5	56	41.9
2015	50.3	54.5	57.9	59.9	68	78.9	82.6	79	68.5	63.6	49.4	47.1

