
YamSql Example Project Documentation

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Some basic math in SQL

Module Contents

- *Functions*
 - *math.erf*
 - *math.factorial*

1.1 Functions

1.1.1 `math.erf`

Gauss error function

This function is a wrapper for the Python 3 implementation.

Parameters

- `x` float

Language plpython3u

Returns float

```
import math
return math.erf(x)
```

1.1.2 `math.factorial`

Factorial function using the `WITH RECURSIVE SQL` feature.

Logical definition:

```
f(0) = 1
f(n) = n * f (n - 1)
```

Parameters

- `p_n` int

Returns int

```
RETURN (  
  WITH RECURSIVE t AS (  
    SELECT 1 AS f, 0 AS n  
    UNION ALL  
    SELECT f * (n + 1), n + 1 FROM t  
  )  
  SELECT f FROM t WHERE n=p_n LIMIT 1  
);
```