Windows functions

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| Ранжирующие (Ranking) | Analytical functions | |
| Offset functions (функции смещения) | Распределения (ratio) |
| Row\_number()  Rank()  Dense\_rank()  NTile(number of groups) | Lag(field, [offset], default)  Lead (field, [offset], default)  First\_value(field, [offset], default)  Last\_value(field, [offset], default) | Cume\_dist()  Percintile\_COUNT()  Percintile\_DISC()  Percent\_RANK() |

Aggregate

SUM()

COUNT()

COUNT\_BIG()

AVG()

MIN()

MAX()

**Examples**

SELECT Invoices.InvoiceId, Invoices.InvoiceDate, Invoices.CustomerID, trans.TransactionAmount,

LAG(trans.TransactionAmount) OVER (PARTITION BY Invoices.CustomerId ORDER BY Invoices.InvoiceId, Invoices.InvoiceDate) as prev,

LEAD(trans.TransactionAmount) OVER (PARTITION BY Invoices.CustomerId ORDER BY Invoices.InvoiceId, Invoices.InvoiceDate) as Follow ,

MAX(trans.TransactionAmount) OVER (PARTITION BY trans.CustomerId),

ROW\_NUMBER() OVER (PARTITION BY Invoices.CustomerId ORDER BY trans.TransactionAmount DESC)

FROM Sales.Invoices as Invoices

join Sales.CustomerTransactions as trans

ON Invoices.InvoiceID = trans.InvoiceID

WHERE Invoices.InvoiceDate < '2014-01-01'

and Invoices.CustomerID = 958

ORDER BY Invoices.InvoiceId, Invoices.InvoiceDate;

SELECT Invoices.InvoiceId, Invoices.InvoiceDate, Invoices.CustomerID,Invoices.BillToCustomerID, trans.TransactionAmount,

LAG(trans.TransactionAmount) OVER (PARTITION BY Invoices.CustomerId ORDER BY Invoices.InvoiceId, Invoices.InvoiceDate) as prev,

LEAD(trans.TransactionAmount) OVER (PARTITION BY Invoices.CustomerId ORDER BY Invoices.InvoiceId, Invoices.InvoiceDate) as Follow ,

MAX(trans.TransactionAmount) OVER (PARTITION BY trans.CustomerId),

ROW\_NUMBER() OVER (PARTITION BY Invoices.CustomerId ORDER BY trans.TransactionAmount DESC)

FROM Sales.Invoices as Invoices

join Sales.CustomerTransactions as trans

ON Invoices.InvoiceID = trans.InvoiceID

WHERE Invoices.InvoiceDate < '2014-01-01'

and Invoices.CustomerID in (958, 884)

ORDER BY trans.TransactionAmount DESC;