# **Some query examples:**

# Filtering data

**Return the three most recent orders:**

SELECT TOP (3) orderid, orderdate, custid, empid

FROM Sales.Orders

ORDER BY orderdate DESC;

**Return 1% of most recent orders.**

SELECT TOP (1) PERCENT orderid, orderdate, custid, empid

FROM Sales.Orders

ORDER BY orderdate DESC;

**Return ‘n’ number of most recent orders**

DECLARE @n AS BIGINT = 5;

SELECT TOP (@n) orderid, orderdate, custid, empid

FROM Sales.Orders

ORDER BY orderdate DESC;

**Define ordering based on order date descending, followed by order ID descending; it then skips the first 50 rows and fetches the next 25 rows:**

SELECT orderid, orderdate, custid, empid

FROM Sales.Orders

ORDER BY orderdate DESC, orderid DESC

OFFSET 50 ROWS FETCH NEXT 25 ROWS ONLY;

**Return rows from a specific page.**

DECLARE @pagesize AS BIGINT = 25, @pagenum AS BIGINT = 3;

SELECT orderid, orderdate, custid, empid

FROM Sales.Orders

ORDER BY orderdate DESC, orderid DESC

OFFSET (@pagenum - 1) \* @pagesize ROWS FETCH NEXT

@pagesize ROWS ONLY;

# Joins

**Return suppliers from Japan and the products they supply**

SELECT

S.companyname AS supplier, S.country,

P.productid, P.productname, P.unitprice

FROM Production.Suppliers AS S

INNER JOIN Production.Products AS P

ON S.supplierid = P.supplierid

WHERE S.country = N'Japan';

**Join two instances of the HR.Employees table to match employees with their managers**

SELECT E.empid,

E.firstname + N' ' + E.lastname AS emp,

M.firstname + N' ' + M.lastname AS mgr

FROM HR.Employees AS E

INNER JOIN HR.Employees AS M

ON E.mgrid = M.empid;

**Return suppliers from Japan and the products they supply, including suppliers from Japan that don’t have related products.**

SELECT

S.companyname AS supplier, S.country,

P.productid, P.productname, P.unitprice

FROM Production.Suppliers AS S

LEFT OUTER JOIN Production.Products AS P

ON S.supplierid = P.supplierid

WHERE S.country = N'Japan';