

1. 

```
select Month(e.HireDate) as "Month" , COUNT(e.BusinessEntityID) as "Count" from
HumanResources.Employee as e, HumanResources.EmployeePayHistory as
ep,HumanResources.Department as d,HumanResources.EmployeeDepartmentHistory as
dp where e.BusinessEntityID=ep.BusinessEntityID and
dp.BusinessEntityID=ep.BusinessEntityID and dp.DepartmentID=d.DepartmentID
GROUP By Month(e.HireDate);
```

## Results Messages

	Month ▼	Count ▼
1	1	99
2	2	92
3	3	28
4	4	1
5	5	14
6	6	1
7	9	1
8	11	1
9	12	97

2. 

```
select d.Name as "Department Name" ,Year(e.HireDate) as "Year" ,
COUNT(e.BusinessEntityID) as "Number of Employees" from HumanResources.Employee
as e, HumanResources.EmployeePayHistory as ep,HumanResources.Department as
d,HumanResources.EmployeeDepartmentHistory as dp where
e.BusinessEntityID=ep.BusinessEntityID and
dp.BusinessEntityID=ep.BusinessEntityID and dp.DepartmentID=d.DepartmentID
GROUP By Year(e.HireDate), d.Name ;
```

**Results**   **Messages**

	Department Name	Year	Number of Employees
1	Document Control	2008	1
2	Document Control	2009	4
3	Engineering	2007	4
4	Engineering	2008	3
5	Engineering	2010	1
6	Engineering	2011	1
7	Executive	2009	4
8	Facilities and Maintenance	2008	1
9	Facilities and Maintenance	2009	2
10	Facilities and Maintenance	2010	4
11	Finance	2008	2
12	Finance	2009	11
13	Human Resources	2008	3
14	Human Resources	2009	3
15	Information Services	2008	3
16	Information Services	2009	7
17	Marketing	2007	4
18	Marketing	2008	1
19	Marketing	2009	3
20	Marketing	2011	6
21	Production	2006	1
22	Production	2007	1
23	Production	2008	56
24	Production	2009	118
25	Production	2010	22
26	Production Control	2008	2
27	Production Control	2009	6
28	Purchasing	2007	3
29	Purchasing	2009	3
30	Purchasing	2010	8
31	Purchasing	2011	3
32	Quality Assurance	2008	2
33	Quality Assurance	2009	3
34	Quality Assurance	2010	1
35	Quality Assurance	2011	3
36	Research and Development	2008	1
37	Research and Development	2009	3
38	Sales	2011	11
39	Sales	2012	4
40	Sales	2013	2

3. `select distinct(p.FirstName), cr.Name as "Country" from Person.Person as p,  
 Person.Address as a, Person.BusinessEntity as be, HumanResources.Employee as e,  
 Person.AddressType as at, Person.BusinessEntityAddress as bea ,  
 Person.CountryRegion as cr, Person.StateProvince as sp where FirstName like  
 'S%' and p.BusinessEntityID <> e.BusinessEntityID and  
 sp.CountryRegionCode=cr.CountryRegionCode and a.StateProvinceID=  
 sp.StateProvinceID and bea.AddressID=a.AddressID and  
 bea.BusinessEntityID=be.BusinessEntityID and bea.AddressTypeID=at.AddressTypeID  
 and p.BusinessEntityID = be.BusinessEntityID;`

Results		Messages
	FirstName	Country
1	Sabrina	Australia
2	Sam	Australia
3	Samuel	Australia
4	Sandra	Australia
5	Sara	Australia
6	Sarah	Australia
7	Savannah	Australia
8	Scot	Australia
9	Scott	Australia
10	Sean	Australia
11	Sebastian	Australia
12	Sergio	Australia
13	Seth	Australia
14	Shane	Australia
15	Shannon	Australia
16	Sharon	Australia
17	Shaun	Australia
18	Shawn	Australia
19	Shawna	Australia
20	Sheena	Australia
21	Sheila	Australia
22	Shelby	Australia
23	Sophia	Australia
24	Stacey	Australia
25	Stacy	Australia
26	Stanley	Australia
27	Stefanie	Australia
28	Stephanie	Australia
29	Steve	Australia
30	Steven	Australia
31	Summer	Australia
32	Susan	Australia
33	Suzanne	Australia
34	Sydney	Australia
35	Samantha	Canada
36	Samuel	Canada
37	Sara	Canada
38	Sarah	Canada
39	Savannah	Canada

4. `select e.OrganizationLevel ,COUNT(OrganizationLevel-1) as "Number  
 ofEmployeesReporting" from HumanResources.Employee as e , Person.Person as p  
 where e.BusinessEntityID=p.BusinessEntityID and OrganizationLevel is not NULL  
 group by OrganizationLevel;`

## Results Messages

	OrganizationLevel ▾	Number ofEmployeesReporting ▾
1	1	6
2	2	27
3	3	66
4	4	190

9. `SELECT RANK() OVER(ORDER BY EndOfDayRate DESC)AS ranking ,crc.CountryRegionCode  
FROM Sales.CurrencyRate as cr, Sales.CountryRegionCurrency as crc, Sales.Currency as c  
where crc.CurrencyCode=c.CurrencyCode;`

Results Messages

	ranking	CountryRegionCode
77	1	NO
78	1	NP
79	1	NZ
80	1	OM
81	1	PA
82	1	PE
83	1	PH
84	1	PK
85	1	PL
86	1	PL
87	1	PT
88	1	PY
89	1	RO
90	1	RU
91	1	RU
92	1	SA
93	1	SE
94	1	SG
95	1	SI
96	1	SK
97	1	SV
98	1	TH
99	1	TN
100	1	TR
101	1	TT
102	1	TW
103	1	EC
104	1	US
105	1	UY
106	1	VE
107	1	VN
108	1	ZA
109	1	ZW
110	110	AE
111	110	AR
112	110	AT
113	110	AU
114	110	BB
115	110	BD
116	110	BE

10.

```

select c.ProductID, MONTH(ss.OrderDate) as Month_Ordered, s.ExpMonth, s.ExpYear,
YEAR(ss.OrderDate) as Year_Ordered, ss.*
from (Sales.SalesOrderHeader ss left join Sales.CreditCard s on ss.CreditCardID =
s.CreditCardID) inner join Sales.SalesOrderDetail c on ss.SalesOrderID =
c.SalesOrderID
where s.ExpMonth = MONTH(ss.OrderDate);

```

Results Messages

	ProductID	Month_Ordered	ExpMonth	ExpYear	Year_Ordered	SalesOrderID	RevisionNumber	OrderDate	DueDate	ShipDate
1	758	5	5	2008	2011	43682	8	2011-05-31 00:00:00.000	2011-06-12 00:00:00.000	2011-06-
2	762	5	5	2008	2011	43682	8	2011-05-31 00:00:00.000	2011-06-12 00:00:00.000	2011-06-
3	760	5	5	2008	2011	43682	8	2011-05-31 00:00:00.000	2011-06-12 00:00:00.000	2011-06-
4	770	5	5	2008	2011	43682	8	2011-05-31 00:00:00.000	2011-06-12 00:00:00.000	2011-06-
5	715	5	5	2008	2011	43682	8	2011-05-31 00:00:00.000	2011-06-12 00:00:00.000	2011-06-
6	765	6	6	2005	2011	43723	8	2011-06-06 00:00:00.000	2011-06-18 00:00:00.000	2011-06-
7	750	6	6	2006	2011	43727	8	2011-06-07 00:00:00.000	2011-06-19 00:00:00.000	2011-06-
8	753	6	6	2005	2011	43742	8	2011-06-11 00:00:00.000	2011-06-23 00:00:00.000	2011-06-
9	752	6	6	2006	2011	43751	8	2011-06-13 00:00:00.000	2011-06-25 00:00:00.000	2011-06-
10	771	6	6	2005	2011	43793	8	2011-06-21 00:00:00.000	2011-07-03 00:00:00.000	2011-06-
11	751	6	6	2005	2011	43806	8	2011-06-24 00:00:00.000	2011-07-06 00:00:00.000	2011-07-
12	749	6	6	2006	2011	43829	8	2011-06-28 00:00:00.000	2011-07-10 00:00:00.000	2011-07-
13	772	7	7	2008	2011	43878	8	2011-07-01 00:00:00.000	2011-07-13 00:00:00.000	2011-07-
14	771	7	7	2008	2011	43878	8	2011-07-01 00:00:00.000	2011-07-13 00:00:00.000	2011-07-
15	710	7	7	2005	2011	43894	8	2011-07-01 00:00:00.000	2011-07-13 00:00:00.000	2011-07-
16	777	7	7	2005	2011	43894	8	2011-07-01 00:00:00.000	2011-07-13 00:00:00.000	2011-07-
17	775	7	7	2005	2011	43894	8	2011-07-01 00:00:00.000	2011-07-13 00:00:00.000	2011-07-
18	776	7	7	2005	2011	43894	8	2011-07-01 00:00:00.000	2011-07-13 00:00:00.000	2011-07-
19	709	7	7	2005	2011	43894	8	2011-07-01 00:00:00.000	2011-07-13 00:00:00.000	2011-07-
20	778	7	7	2005	2011	43894	8	2011-07-01 00:00:00.000	2011-07-13 00:00:00.000	2011-07-
21	771	7	7	2005	2011	43894	8	2011-07-01 00:00:00.000	2011-07-13 00:00:00.000	2011-07-
22	778	7	7	2007	2011	43915	8	2011-07-01 00:00:00.000	2011-07-13 00:00:00.000	2011-07-
23	753	7	7	2005	2011	43927	8	2011-07-03 00:00:00.000	2011-07-15 00:00:00.000	2011-07-
24	760	7	7	2007	2011	43929	8	2011-07-03 00:00:00.000	2011-07-15 00:00:00.000	2011-07-
25	767	7	7	2007	2011	43940	8	2011-07-05 00:00:00.000	2011-07-17 00:00:00.000	2011-07-
26	768	7	7	2005	2011	43943	8	2011-07-06 00:00:00.000	2011-07-18 00:00:00.000	2011-07-
27	752	7	7	2007	2011	43946	8	2011-07-06 00:00:00.000	2011-07-18 00:00:00.000	2011-07-
28	775	7	7	2006	2011	43959	8	2011-07-09 00:00:00.000	2011-07-21 00:00:00.000	2011-07-
29	767	7	7	2008	2011	44002	8	2011-07-19 00:00:00.000	2011-07-31 00:00:00.000	2011-07-
30	749	7	7	2007	2011	44006	8	2011-07-19 00:00:00.000	2011-07-31 00:00:00.000	2011-07-
31	751	7	7	2006	2011	44028	8	2011-07-23 00:00:00.000	2011-08-04 00:00:00.000	2011-07-
32	777	7	7	2006	2011	44029	8	2011-07-23 00:00:00.000	2011-08-04 00:00:00.000	2011-07-
33	751	7	7	2006	2011	44035	8	2011-07-24 00:00:00.000	2011-08-05 00:00:00.000	2011-07-
34	770	7	7	2007	2011	44039	8	2011-07-25 00:00:00.000	2011-08-06 00:00:00.000	2011-08-
35	778	7	7	2008	2011	44040	8	2011-07-25 00:00:00.000	2011-08-06 00:00:00.000	2011-08-
36	752	7	7	2006	2011	44046	8	2011-07-26 00:00:00.000	2011-08-07 00:00:00.000	2011-08-
37	773	8	8	2008	2011	44098	8	2011-08-01 00:00:00.000	2011-08-13 00:00:00.000	2011-08-
38	775	8	8	2008	2011	44098	8	2011-08-01 00:00:00.000	2011-08-13 00:00:00.000	2011-08-