1.

```sql
SELECT CASE
    WHEN MONTH(HireDate) = 1 THEN 'JANUARY'
    WHEN MONTH(HireDate) = 2 THEN 'FEBRUARY'
    WHEN MONTH(HireDate) = 3 THEN 'MARCH'
    WHEN MONTH(HireDate) = 4 THEN 'APRIL'
    WHEN MONTH(HireDate) = 5 THEN 'MAY'
    WHEN MONTH(HireDate) = 6 THEN 'JUNE'
    WHEN MONTH(HireDate) = 7 THEN 'JULY'
    WHEN MONTH(HireDate) = 8 THEN 'AUGEST'
    WHEN MONTH(HireDate) = 9 THEN 'SEPTEMBER'
    WHEN MONTH(HireDate) = 10 THEN 'OCTOBER'
    WHEN MONTH(HireDate) = 11 THEN 'NOVEMBER'
    WHEN MONTH(HireDate) = 12 THEN 'DECEMBER'
END MONTH_NAME, COUNT(BusinessEntityID) AS EMPLOYEE_COUNT FROM HumanResources.Employee GROUP BY MONTH(HireDate);
```

```
1    SELECT CASE
2        WHEN MONTH(HireDate) = 1 THEN 'JANUARY'
3        WHEN MONTH(HireDate) = 2 THEN 'FEBRUARY'
4        WHEN MONTH(HireDate) = 3 THEN 'MARCH'
5        WHEN MONTH(HireDate) = 4 THEN 'APRIL'
6        WHEN MONTH(HireDate) = 5 THEN 'MAY'
7        WHEN MONTH(HireDate) = 6 THEN 'JUNE'
8        WHEN MONTH(HireDate) = 7 THEN 'JULY'
9        WHEN MONTH(HireDate) = 8 THEN 'AUGEST'
10       WHEN MONTH(HireDate) = 9 THEN 'SEPTEMBER'
11       WHEN MONTH(HireDate) = 10 THEN 'OCTOBER'
12       WHEN MONTH(HireDate) = 11 THEN 'NOVEMBER'
13       WHEN MONTH(HireDate) = 12 THEN 'DECEMBER'
14   END MONTH_NAME, COUNT(BusinessEntityID) AS EMPLOYEE_COUNT FROM HumanResources.Employee GROUP BY MONTH(HireDate);
15
16
```

Results   Messages

	MONTH_NAME	EMPLOYEE_COUNT
1	JANUARY	85
2	FEBRUARY	78
3	MARCH	26
4	APRIL	1
5	MAY	14
6	JUNE	1
7	SEPTEMBER	1
8	NOVEMBER	1
9	DECEMBER	83

2.

```sql
SELECT (SELECT Name from HumanResources.Department DD WHERE DD.DepartmentID = D.DepartmentID) AS DEPARTMENT,
        YEAR(DH.StartDate) AS YEAR,
```

```
        COUNT(DH.BusinessEntityID) AS EMPLOYEE_HIRED
    FROM HumanResources.Department D, HumanResources.EmployeeDepartmentHistory DH WHERE D.D
epartmentID = DH.DepartmentID
    GROUP BY D.DepartmentID, YEAR(DH.StartDate);
```

```sql
1   SELECT (SELECT Name from HumanResources.Department DD WHERE DD.DepartmentID = D.DepartmentID) AS DEPARTMENT,
2          YEAR(DH.StartDate) AS YEAR,
3          COUNT(DH.BusinessEntityID) AS EMPLOYEE_HIRED
4     FROM HumanResources.Department D, HumanResources.EmployeeDepartmentHistory DH WHERE D.DepartmentID = DH.DepartmentID
5      GROUP BY D.DepartmentID, YEAR(DH.StartDate);
```

Results Messages

	DEPARTMENT	YEAR	EMPLOYEE_HIRED
1	Engineering	2007	2
2	Engineering	2008	3
3	Engineering	2010	1
4	Engineering	2011	1
5	Tool Design	2007	1
6	Tool Design	2010	3
7	Sales	2011	11
8	Sales	2012	4
9	Sales	2013	3
10	Marketing	2007	1
11	Marketing	2008	1
12	Marketing	2009	4
13	Marketing	2011	4
14	Purchasing	2007	1
15	Purchasing	2009	3
16	Purchasing	2010	8
17	Purchasing	2012	1
18	Research and…	2008	1
19	Research and…	2009	3
20	Production	2006	1
21	Production	2007	1
22	Production	2008	52
23	Production	2009	104
24	Production	2010	22

3.

```sql
SELECT DISTINCT CONCAT(P.FirstName, ' ', P.LastName) AS NAME,
       C.Name AS COUNTRY_NAME FROM Person.Person P,
       Person.CountryRegion C WHERE P.BusinessEntityID NOT IN (SELECT BusinessEntityID FROM
 HumanResources.Employee) AND P.FirstName LIKE 'S%';
```

```
1   SELECT DISTINCT CONCAT(P.FirstName, ' ', P.LastName) AS NAME,
2           C.Name AS COUNTRY_NAME FROM Person.Person P,
3           Person.CountryRegion C WHERE P.BusinessEntityID NOT IN (SELECT BusinessEntityID FROM HumanResources.Employee) AND P.FirstName LIKE 'S%';
```

Results   Messages

	NAME	COUNTRY_NAME
1	Sabria Appelbaum	Antarctica
2	Sabria Appelbaum	Austria
3	Sabria Appelbaum	Belarus
4	Sabria Appelbaum	Bermuda
5	Sabria Appelbaum	Brazil
6	Sabria Appelbaum	Ecuador
7	Sabria Appelbaum	Equatorial Guinea
8	Sabria Appelbaum	Georgia
9	Sabria Appelbaum	Jamaica
10	Sabria Appelbaum	Papua New Guinea
11	Sabria Appelbaum	Romania
12	Sabria Appelbaum	Saint Helena
13	Sabria Appelbaum	Slovakia
14	Sabria Appelbaum	Tonga
15	Sabria Appelbaum	Ukraine
16	Sabria Appelbaum	United Arab Emirates
17	Sabrina Alonso	Austria
18	Sabrina Alonso	Benin
19	Sabrina Alonso	Bermuda
20	Sabrina Alonso	Bhutan
21	Sabrina Alonso	Cameroon
22	Sabrina Alonso	China
23	Sabrina Alonso	Cyprus
24	Sabrina Alonso	Ecuador

4.

```
SELECT CONCAT(P.FirstName, ' ', P.LastName) AS Name, EE.JobTitle As JobTitle, EE.Organizati
onLevel AS OrganizationalLevel, (SELECT COUNT(*) FROM HumanResources.Employee EEE WHERE EEE
.OrganizationLevel = EE.BusinessEntityID) as NumberOfEmployeeReporting FROM HumanResources.
Employee EE, Person.Person P WHERE EE.BusinessEntityID = P.BusinessEntityID AND EE.Business
EntityID IN (SELECT DISTINCT OrganizationLevel FROM HumanResources.Employee E);
```

```sql
1   SELECT CONCAT(P.FirstName, ' ', P.LastName) AS Name,
2          EE.JobTitle As JobTitle,
3          EE.OrganizationLevel AS OrganizationalLevel,
4          (SELECT COUNT(*) FROM HumanResources.Employee EEE WHERE
5                              EEE.OrganizationLevel = EE.BusinessEntityID) as NumberOfEmployeeReporting
6          FROM HumanResources.Employee EE, Person.Person P WHERE
7              EE.BusinessEntityID = P.BusinessEntityID AND
8              EE.BusinessEntityID IN (SELECT DISTINCT OrganizationLevel FROM HumanResources.Employee E);
```

Results   Messages

Name	JobTitle	OrganizationalLevel	NumberOfEmployeeReporting
1	Ken Sánchez	Chief Executive Officer	NULL	6
2	Terri Duffy	Vice President of Engineering	1	27
3	Roberto Tamburello	Engineering Manager	2	66
4	Rob Walters	Senior Tool Designer	3	190

5.

```sql
SELECT CONCAT(P.FirstName, ' ', P.LastName) AS Name,
       EE.JobTitle As JobTitle,
       EE.OrganizationLevel AS OrganizationalLevel,
       (SELECT COUNT(*) FROM HumanResources.Employee EEE WHERE
                          EEE.OrganizationLevel = EE.BusinessEntityID) as NumberOfEmployeeReporting
       FROM HumanResources.Employee EE, Person.Person P WHERE
           EE.BusinessEntityID = P.BusinessEntityID AND
           EE.BusinessEntityID IN (SELECT DISTINCT OrganizationLevel FROM HumanResources.Employee E);
```