

```

/*
    Вывести на экран список сотрудников которые
    подавали резюме при трудоустройстве.
*/
SELECT      Employee.BusinessEntityID,
            [OrganizationLevel],
            [JobTitle],
            [JobCandidateID],
            [Resume]
FROM        HumanResources.Employee
INNER JOIN  HumanResources.JobCandidate
ON          Employee.BusinessEntityID = JobCandidate.BusinessEntityID

```

100 %

| | BusinessEntit... | OrganizationLe... | JobTitle | JobCandidat... | Resume |
|---|------------------|-------------------|------------------------------|----------------|---|
| 1 | 274 | 2 | North American Sales Manager | 4 | <ns:Resume xmlns:ns="http://schemas.microsoft.co... |
| 2 | 212 | 3 | Quality Assurance Supervisor | 8 | <ns:Resume xmlns:ns="http://schemas.microsoft.co... |

```

/*
    Вывести на экран названия отделов, в которых
    работает более 10-ти сотрудников
*/
SELECT      Department.DepartmentID,
            [Name],
            COUNT(Department.DepartmentID) as [EmpCount]
FROM        HumanResources.Department
JOIN        HumanResources.EmployeeDepartmentHistory
ON          EmployeeDepartmentHistory.DepartmentID = Department.DepartmentID
GROUP BY    Department.DepartmentID, [Name]
HAVING      COUNT(Department.DepartmentID) > 10

```

100 %

| | Departmen... | Name | EmpCount |
|---|--------------|------------|----------|
| 1 | 3 | Sales | 18 |
| 2 | 5 | Purchasing | 13 |
| 3 | 7 | Production | 180 |
| 4 | 10 | Finance | 11 |

```

/*
Вывести на экран накопительную сумму часов отпуска по причине
болезни (SickLeaveHours) в рамках каждого отдела.
Сумма должна накапливаться по мере трудоустройства сотрудников (HireDate).
*/
SELECT      Department.Name,
            Employee.HireDate,
            Employee.SickLeaveHours,
            SUM(Employee.SickLeaveHours) OVER (PARTITION BY Department.Name
                                              ORDER BY Employee.HireDate ASC
                                              ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW) as [AccumulativeSum]
FROM      HumanResources.EmployeeDepartmentHistory
JOIN      HumanResources.Employee ON Employee.BusinessEntityID = EmployeeDepartmentHistory.DepartmentID
JOIN      HumanResources.Department ON Department.DepartmentID = EmployeeDepartmentHistory.DepartmentID
WHERE     EmployeeDepartmentHistory.EndDate IS NULL --Убрал отделы в которых люди работали раньше

```

100 %

Results Messages

| | Name | HireDate | SickLeaveHo... | AccumulativeS... |
|----|----------------------------|------------|----------------|------------------|
| 1 | Document Control | 2002-01-11 | 24 | 24 |
| 2 | Document Control | 2002-01-11 | 24 | 48 |
| 3 | Document Control | 2002-01-11 | 24 | 72 |
| 4 | Document Control | 2002-01-11 | 24 | 96 |
| 5 | Document Control | 2002-01-11 | 24 | 120 |
| 6 | Engineering | 2003-02-15 | 69 | 69 |
| 7 | Engineering | 2003-02-15 | 69 | 138 |
| 8 | Engineering | 2003-02-15 | 69 | 207 |
| 9 | Engineering | 2003-02-15 | 69 | 276 |
| 10 | Engineering | 2003-02-15 | 69 | 345 |
| 11 | Engineering | 2003-02-15 | 69 | 414 |
| 12 | Executive | 2002-01-20 | 40 | 40 |
| 13 | Executive | 2002-01-20 | 40 | 80 |
| 14 | Facilities and Maintenance | 2005-01-30 | 21 | 21 |
| 15 | Facilities and Maintenance | 2005-01-30 | 21 | 42 |
| 16 | Facilities and Maintenance | 2005-01-30 | 21 | 63 |
| 17 | Facilities and Maintenance | 2005-01-30 | 21 | 84 |
| 18 | Facilities and Maintenance | 2005-01-30 | 21 | 105 |

Tables

- System Tables
- FileTables
- dbo.Address
 - Columns
 - AddressID (int, null)
 - AddressLine1 (nvarchar(64), null)
 - AddressLine2 (nvarchar(64), null)
 - City (nvarchar(32), null)
 - StateProvinceID (int, null)
 - PostalCode (nvarchar(16), null)
 - ModifiedDate (datetime, null)
 - Keys
 - Constraints
- dbo.Address
 - Columns
 - Keys
 - UQ_Address_3214EC26A5A7F1C2
 - Constraints
 - Triggers
 - Indexes
- dbo.Address
 - Columns
 - Keys
 - Constraints
 - Odd
 - Triggers
 - Indexes
- dbo.Address
 - Columns
 - Keys
 - Constraints
 - Odd
 - Unknown
 - Triggers

```

/*
а) создайте таблицу dbo.Address с такой же структурой
как Person.Address, кроме полей geography, uniqueidentifier,
не включая индексы, ограничения и триггеры;
*/

```

```

create table dbo.Address (
    AddressID int,
    AddressLine1 nvarchar(64),
    AddressLine2 nvarchar(64),
    City nvarchar(32),
    StateProvinceID int,
    PostalCode nvarchar(16),
    ModifiedDate datetime,
);

```

```

b) используя инструкцию ALTER TABLE, добавьте в таблицу dbo.Address
новое поле ID с типом данных INT, имеющее свойство identity с
начальным значением 1 и приращением 1.
Создайте для нового поля ID ограничение UNIQUE;

```

```

ALTER TABLE dbo.Address
ADD ID int IDENTITY(1, 1) UNIQUE;

```

```

c) используя инструкцию ALTER TABLE, создайте для
таблицы dbo.Address ограничение для поля StateProvinceID,
чтобы заполнить его можно было только нечетными числами;

```

```

ALTER TABLE dbo.Address
ADD CONSTRAINT Odd check((StateProvinceID % 2) = 1);

```

```

d) используя инструкцию ALTER TABLE, создайте для таблицы
dbo.Address ограничение DEFAULT для поля AddressLine2,
задайте значение по умолчанию 'Unknown';

```

```

ALTER TABLE dbo.Address
ADD CONSTRAINT Unknown
DEFAULT 'Unknown' FOR AddressLine2

```

```

/*
    е) заполните новую таблицу данными из Person.Address.
    Выберите для вставки только те адреса, где значение поля Name
    из таблицы CountryRegion начинается на букву 'а'. Также исключите данные,
    где StateProvinceID содержит четные числа. Заполните поле AddressLine2 значениями по умолчанию;
*/
INSERT INTO dbo.Address
    (Address.AddressID,
    Address.AddressLine1,
    Address.City,
    Address.StateProvinceID,
    Address.PostalCode,
    Address.ModifiedDate)
SELECT Address.AddressID,
    Address.AddressLine1,
    Address.City,
    Address.StateProvinceID,
    Address.PostalCode,
    Address.ModifiedDate
FROM Person.Address
JOIN Person.StateProvince
ON Person.Address.StateProvinceID = Person.StateProvince.StateProvinceID
JOIN Person.CountryRegion
ON Person.StateProvince.CountryRegionCode = Person.CountryRegion.CountryRegionCode
WHERE Person.CountryRegion.Name LIKE 'а%' AND
    (Person.Address.StateProvinceID % 2) = 1

SELECT *
FROM dbo.Address

```

```

/*
e) заполните новую таблицу данными из Person.Address.
Выберите для вставки только те адреса, где значение поля Name
из таблицы CountryRegion начинается на букву 'а'. Также исключите данные,
где StateProvinceID содержит четные числа. Заполните поле AddressLine2 значениями по умолчанию;
*/
INSERT INTO dbo.Address

```

100 %

Results Messages

| | Address... | AddressLine1 | AddressLin... | City | StateProvinc... | PostalCo... | ModifiedDate | ID |
|----|------------|---------------------|---------------|-----------------|-----------------|-------------|-------------------------|----|
| 1 | 36 | 34 Waterloo Road | Unknown | Melbourne | 77 | 3000 | 2007-06-24 00:00:00.000 | 1 |
| 2 | 416 | Level 100 | Unknown | South Melbourne | 77 | 3205 | 2007-08-01 00:00:00.000 | 2 |
| 3 | 418 | Licensing Account | Unknown | Seaford | 77 | 3198 | 2007-09-01 00:00:00.000 | 3 |
| 4 | 419 | Level 99 | Unknown | Melbourne | 77 | 3000 | 2007-09-01 00:00:00.000 | 4 |
| 5 | 433 | Level 25 | Unknown | Melbourne | 77 | 3000 | 2007-08-01 00:00:00.000 | 5 |
| 6 | 437 | Level 992 | Unknown | Melbourne | 77 | 3000 | 2007-07-01 00:00:00.000 | 6 |
| 7 | 442 | 45671 Queens ... | Unknown | Melbourne | 77 | 3000 | 2007-07-01 00:00:00.000 | 7 |
| 8 | 11437 | 3852 Northridge... | Unknown | Geelong | 77 | 3220 | 2008-04-02 00:00:00.000 | 8 |
| 9 | 11441 | 8426 Easley Dr. | Unknown | Melton | 77 | 3337 | 2007-11-03 00:00:00.000 | 9 |
| 10 | 11463 | 2111 Freedom ... | Unknown | Sunbury | 77 | 3429 | 2005-12-05 00:00:00.000 | 10 |
| 11 | 11474 | 2665 B Wildbro... | Unknown | Warrnambool | 77 | 3280 | 2006-08-08 00:00:00.000 | 11 |
| 12 | 11482 | 5636 Barcelona | Unknown | Cranbourne | 77 | 3977 | 2006-04-03 00:00:00.000 | 12 |
| 13 | 11493 | 793 Crawford St... | Unknown | South Melbourne | 77 | 3205 | 2005-12-11 00:00:00.000 | 13 |
| 14 | 11516 | 9549 Roxbury D... | Unknown | Bendigo | 77 | 3550 | 2007-04-15 00:00:00.000 | 14 |
| 15 | 11517 | 593 Willow Pass... | Unknown | Melbourne | 77 | 3000 | 2007-06-14 00:00:00.000 | 15 |
| 16 | 11530 | 935 Vista Oak Dr | Unknown | Bendigo | 77 | 3550 | 2007-06-24 00:00:00.000 | 16 |
| 17 | 11541 | 7330 Saddlehill ... | Unknown | Sunbury | 77 | 3429 | 2005-07-15 00:00:00.000 | 17 |
| 18 | 11542 | 4055 Leonard Ct. | Unknown | Warrnambool | 77 | 3280 | 2008-03-30 00:00:00.000 | 18 |
| 19 | 11567 | 7596 Valley Vie... | Unknown | Sunbury | 77 | 3429 | 2007-02-18 00:00:00.000 | 19 |
| 20 | 11574 | 3947 Vista Valle... | Unknown | Hobart | 71 | 7001 | 2008-01-16 00:00:00.000 | 20 |
| 21 | 11598 | 5324 Horsesho... | Unknown | Melbourne | 77 | 3000 | 2005-12-21 00:00:00.000 | 21 |
| 22 | 11599 | 9995 All Ways D... | Unknown | Hobart | 71 | 7001 | 2008-07-02 00:00:00.000 | 22 |
| 23 | 11609 | 3445 Fine Drive | Unknown | Cranbourne | 77 | 3977 | 2008-05-29 00:00:00.000 | 23 |
| 24 | 11617 | 5844 Miguel Drive | Unknown | Hobart | 71 | 7001 | 2007-11-05 00:00:00.000 | 24 |
| 25 | 11618 | 2489 Teakwood... | Unknown | Sunbury | 77 | 3429 | 2007-01-23 00:00:00.000 | 25 |
| 26 | 11635 | 2775 Robinson ... | Unknown | Sunbury | 77 | 3429 | 2005-12-19 00:00:00.000 | 26 |
| 27 | 11656 | 486 Pacifica Av... | Unknown | Seaford | 77 | 3198 | 2006-12-27 00:00:00.000 | 27 |

dbo.Address

Columns

- AddressID (int, null)
- AddressLine1 (nvarchar(64), null)
- AddressLine2 (nvarchar(64), not null)
- City (nvarchar(32), null)
- StateProvinceID (int, null)
- PostalCode (nvarchar(16), null)
- ModifiedDate (datetime, null)
- ID (int, not null)

```

/*
f) измените поле AddressLine2, запретив вставку null значений.
*/
ALTER TABLE dbo.Address
ALTER COLUMN AddressLine2 nvarchar(64) not null;

```