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Задание 1

```
SQLQuery3.sql - LA...84PQ7E9\Asus (55))  X
    --1 Task
SELECT [HumanResources].[Employee].BusinessEntityID, OrganizationLevel, JobTitle, [HumanResources].[JobCandidate].JobCandidateID,
    [HumanResources].[JobCandidate].Resume  FROM [HumanResources].[Employee]
    JOIN [HumanResources].[JobCandidate]
    ON [HumanResources].[Employee].BusinessEntityID = [HumanResources].[JobCandidate].BusinessEntityID
    WHERE [HumanResources].[JobCandidate].Resume IS NOT NULL;

    --2 Task
SELECT [HumanResources].EmployeeDepartmentHistory.DepartmentID, Name, COUNT([HumanResources].EmployeeDepartmentHistory.DepartmentID)
    as 'EmpCount' FROM [HumanResources].EmployeeDepartmentHistory
    JOIN [HumanResources].Department
    ON [HumanResources].EmployeeDepartmentHistory.DepartmentID = [HumanResources].Department.DepartmentID
    WHERE EndDate IS NULL
    GROUP BY [HumanResources].EmployeeDepartmentHistory.DepartmentID, Name
    HAVING COUNT([HumanResources].EmployeeDepartmentHistory.DepartmentID) > 10;
```

	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...

	Departmen...	Name	EmpCount
1	3	Sales	18
2	5	Purchasing	12
3	7	Production	179

```
SQLQuery3.sql - LA...84PQ7E9\Asus (55))  X
    --3 Task
SELECT Name, HireDate, SickLeaveHours, SUM(SickLeaveHours)
    OVER(PARTITION BY Name ORDER BY HireDate ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW) as 'AccumulativeSum'
    FROM [HumanResources].EmployeeDepartmentHistory
    JOIN [HumanResources].Employee
    ON [HumanResources].EmployeeDepartmentHistory.BusinessEntityID = [HumanResources].Employee.BusinessEntityID
    JOIN [HumanResources].Department
    ON [HumanResources].EmployeeDepartmentHistory.DepartmentID = [HumanResources].Department.DepartmentID
    WHERE EndDate IS NULL
    ORDER BY Name, HireDate;
```

	Name	HireDate	SickLeaveHo...	AccumulativeS...
1	Document Control	2003-01-17	58	58
2	Document Control	2003-02-05	58	116
3	Document Control	2003-02-23	59	175
4	Document Control	2003-03-13	59	234
5	Document Control	2003-04-07	57	291
6	Engineering	2001-12-12	21	21
7	Engineering	2002-02-06	22	43
8	Engineering	2002-02-24	23	66
9	Engineering	2002-03-03	20	86
10	Engineering	2005-01-30	21	107
11	Engineering	2005-02-18	22	129
12	Executive	2003-02-15	69	69
13	Executive	2003-03-04	20	89
14	Facilities and Maintenance	2003-01-15	66	66
15	Facilities and Maintenance	2004-01-03	63	129
16	Facilities and Maintenance	2004-01-22	63	192
17	Facilities and Maintenance	2004-02-28	64	256
18	Facilities and Maintenance	2004-03-19	65	321

Задание 2

```sql
--Task a)
CREATE TABLE dbo.Address(
    [AddressID] [int],
    [AddressLine1] [nvarchar](60),
    [AddressLine2] [nvarchar](60),
    [City] [nvarchar](30),
    [StateProvinceID] [int],
    [PostalCode] [nvarchar](15),
    [ModifiedDate] [datetime]);
GO
--Task b)
ALTER TABLE dbo.Address
ADD ID int IDENTITY(1, 1) UNIQUE;

--Task c)
ALTER TABLE dbo.Address
ADD CONSTRAINT odd CHECK(StateProvinceID % 2 != 0);

--Task d)
ALTER TABLE dbo.Address ADD CONSTRAINT DF_AddressLine2 DEFAULT 'Unknown' FOR AddressLine2;
```

10 %

Messages

Command(s) completed successfully.

e)

```sql
--Task e)
INSERT INTO dbo.Address (AddressID, AddressLine1, AddressLine2, City, StateProvinceID, PostalCode, ModifiedDate)
SELECT Person.Address.AddressID, Person.Address.AddressLine1, ISNULL(AddressLine2, 'Unknown') as 'AddressLine2',
Person.Address.City, Person.Address.StateProvinceID, Person.Address.PostalCode,
Person.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 'a%' AND Person.Address.StateProvinceID % 2 != 0;

SELECT * FROM dbo.Address
```

110 %

Results | Messages

	AddressID	AddressLine1	AddressLine2	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	77 Southbank Boulevard	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	12 South 10th Avenue	Melbourne	77	3000	2007-09-01 00:00:00.000	4
5	433	Level 25	96 Lytton Rd.	Melbourne	77	3000	2007-08-01 00:00:00.000	5
6	437	Level 992	56 Pitt Street	Melbourne	77	3000	2007-07-01 00:00:00.000	6
7	442	45671 Queens Road Ct.	Unknown	Melbourne	77	3000	2007-07-01 00:00:00.000	7
8	11437	3852 Northridge Dr.	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 Court	Unknown	Sunbury	77	3429	2005-12-05 00:00:00.000	10
11	11474	2865 B Wildbrook Ct	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

Query executed successfully.   LAPTOP-H84PQ7E9\SQLEXPRESS ...   LAPTOP-H84PQ7E9\Asus (52)   AdventureWorks2012   00:00:00   1007 rows

```sql
--SELECT * FROM dbo.Address


  --Task f)
ALTER TABLE dbo.Address
ALTER COLUMN AddressLine2 nvarchar(60) NOT NULL;
```

100 %

Messages

Command(s) completed successfully.