Задание 1.

1.1

	Name	JobTitle	EmpCount
1	Document Control	Control Specialist	5
2	Document Control	Document Control Assistant	5
3	Document Control	Document Control Manager	5
4	Engineering	Design Engineer	7
5	Engineering	Engineering Manager	7
6	Engineering	Senior Design Engineer	7
7	Engineering	Senior Tool Designer	7
8	Engineering	Vice President of Engineering	7
9	Executive	Chief Executive Officer	2
10	Executive	Chief Financial Officer	2
11	Facilities and Maintenance	Facilities Administrative Assistant	7
12	Facilities and Maintenance	Facilities Manager	7
13	Facilities and Maintenance	Janitor	7
14	Facilities and Maintenance	Maintenance Supervisor	7
15	Finance	Accountant	11
16	Finance	Accounts Manager	11
17	Finance	Accounts Payable Specialist	11
18	Finance	Accounts Receivable Specialist	11
19	Finance	Assistant to the Chief Financial...	11
20	Finance	Chief Financial Officer	11
21	Finance	Finance Manager	11
22	Human Resources	Benefits Specialist	6
23	Human Resources	Human Resources Administrati...	6
24	Human Resources	Human Resources Manager	6
25	Human Resources	Recruiter	6
26	Information Services	Application Specialist	10

1.2

	Name	Start Time	End Time	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode	OrganizationLevel	JobTitle	BirthDate	MaritalStatus	Gende
1	Night	23:00:00.0000000	07:00:00.0000000	40	309738752	adventure-works\jolynn0	0x7ADA	3	Production Supervisor - WC60	1950-02-16	S	F
2	Night	23:00:00.0000000	07:00:00.0000000	41	458159238	adventure-works\bryan0	0x7ADAB0	4	Production Technician - WC60	1967-09-28	S	M
3	Night	23:00:00.0000000	07:00:00.0000000	42	339712426	adventure-works\james0	0x7ADAD0	4	Production Technician - WC60	1978-08-26	M	M
4	Night	23:00:00.0000000	07:00:00.0000000	43	693325305	adventure-works\nancy0	0x7ADAF0	4	Production Technician - WC60	1982-12-21	M	F
5	Night	23:00:00.0000000	07:00:00.0000000	44	276751903	adventure-works\simon0	0x7ADB08	4	Production Technician - WC60	1984-06-17	S	M
6	Night	23:00:00.0000000	07:00:00.0000000	45	500412746	adventure-works\thom...	0x7ADB18	4	Production Technician - WC60	1980-02-11	M	M
7	Night	23:00:00.0000000	07:00:00.0000000	46	66073987	adventure-works\euge...	0x7ADB28	4	Production Technician - WC60	1970-03-13	S	M
8	Night	23:00:00.0000000	07:00:00.0000000	55	233069302	adventure-works\taylor0	0x7AE1	3	Production Supervisor - WC50	1950-05-03	M	M
9	Night	23:00:00.0000000	07:00:00.0000000	56	652535724	adventure-works\denis...	0x7AE158	4	Production Technician - WC50	1982-08-07	M	F
10	Night	23:00:00.0000000	07:00:00.0000000	57	10708100	adventure-works\frank1	0x7AE168	4	Production Technician - WC50	1965-08-24	S	M
11	Night	23:00:00.0000000	07:00:00.0000000	58	571658797	adventure-works\kend...	0x7AE178	4	Production Technician - WC50	1980-06-30	M	M
12	Night	23:00:00.0000000	07:00:00.0000000	59	843479922	adventure-works\bob0	0x7AE184	4	Production Technician - WC50	1973-09-16	S	M
13	Night	23:00:00.0000000	07:00:00.0000000	60	827686041	adventure-works\pete0	0x7AE18C	4	Production Technician - WC50	1971-03-07	S	M
14	Night	23:00:00.0000000	07:00:00.0000000	61	92096924	adventure-works\diane2	0x7AE194	4	Production Technician - WC50	1983-09-10	S	F
15	Night	23:00:00.0000000	07:00:00.0000000	71	578935259	adventure-works\mich...	0x7AE5	3	Production Supervisor - WC30	1983-03-02	S	M
16	Night	23:00:00.0000000	07:00:00.0000000	72	443968955	adventure-works\steve...	0x7AE558	4	Production Technician - WC30	1971-06-15	M	M
17	Night	23:00:00.0000000	07:00:00.0000000	73	138280935	adventure-works\carole0	0x7AE568	4	Production Technician - WC30	1977-11-19	M	F
18	Night	23:00:00.0000000	07:00:00.0000000	74	420023788	adventure-works\bjom0	0x7AE578	4	Production Technician - WC30	1983-12-08	S	M
19	Night	23:00:00.0000000	07:00:00.0000000	75	363996959	adventure-works\michi...	0x7AE584	4	Production Technician - WC30	1976-07-28	S	M
20	Night	23:00:00.0000000	07:00:00.0000000	76	227319668	adventure-works\carol0	0x7AE58C	4	Production Technician - WC30	1982-11-18	M	F
21	Night	23:00:00.0000000	07:00:00.0000000	77	301435199	adventure-works\merav0	0x7AE594	4	Production Technician - WC30	1977-06-13	M	F
22	Night	23:00:00.0000000	07:00:00.0000000	87	7201901	adventure-works\cristia...	0x7AE880	3	Production Supervisor - WC10	1978-05-13	M	M
23	Night	23:00:00.0000000	07:00:00.0000000	88	294148271	adventure-works\betsy0	0x7AE8AC	4	Production Technician - WC10	1961-01-17	S	F
24	Night	23:00:00.0000000	07:00:00.0000000	89	90888098	adventure-works\patric...	0x7AE8B4	4	Production Technician - WC10	1980-10-11	S	M
25	Night	23:00:00.0000000	07:00:00.0000000	90	82638150	adventure-works\danie...	0x7AE8BC	4	Production Technician - WC10	1980-10-08	S	F
26	Night	23:00:00.0000000	07:00:00.0000000	91	390124815	adventure-works\kimb...	0x7AE8C2	4	Production Technician - WC10	1980-10-14	S	F
27	Night	23:00:00.0000000	07:00:00.0000000	92	826454897	adventure-works\tom0	0x7AE8C6	4	Production Technician - WC10	1980-11-01	M	M
28	Night	23:00:00.0000000	07:00:00.0000000	124	420776180	adventure-works\kim0	0x7AECBC		Stocker	1978-06-01	S	F
29	Night	23:00:00.0000000	07:00:00.0000000	127	750905084	adventure-works\david4	0x7AED80	3	Production Supervisor - WC40	1977-08-02	S	M
30	Night	23:00:00.0000000	07:00:00.0000000	128	384162788	adventure-works\paul0	0x7AEDAC	4	Production Technician - WC40	1974-12-15	S	M

1.3

	BusinessEntityID	Rate	PrevRate	Increased
1	1	125.50	0.00	125.50
2	2	63.4615	0.00	63.4615
3	3	43.2692	0.00	43.2692
4	4	8.62	0.00	8.62
5	4	23.72	8.62	15.10
6	4	29.8462	23.72	6.1262
7	5	32.6923	0.00	32.6923
8	6	32.6923	0.00	32.6923
9	7	50.4808	0.00	50.4808
10	8	40.8654	0.00	40.8654
11	9	40.8654	0.00	40.8654
12	10	42.4808	0.00	42.4808
13	11	28.8462	0.00	28.8462
14	12	25.00	0.00	25.00
15	13	25.00	0.00	25.00
16	14	36.0577	0.00	36.0577
17	15	32.6923	0.00	32.6923
18	16	24.00	0.00	24.00
19	16	28.75	24.00	4.75
20	16	37.50	28.75	8.75
21	17	13.4615	0.00	13.4615
22	18	14.4231	0.00	14.4231
23	19	13.4615	0.00	13.4615
24	20	13.4615	0.00	13.4615
25	21	14.4231	0.00	14.4231
26	22	14.4231	0.00	14.4231
27	23	14.4231	0.00	14.4231
28	24	14.4231	0.00	14.4231
29	25	84.1346	0.00	84.1346

Задание 2.

Результаты выполнения запросов подзаданий a-f:

```sql
15  /* Task a) */
16  select top 0 * into [StateProvince] from [Person].[StateProvince];
17  alter table [StateProvince] drop column [rowguid];
18
19  /* Task b) */
20  alter table [StateProvince] add constraint [AK_StateProvince_Name] unique ([Name]);
21
22  /* Task c) */
23  alter table [StateProvince] add constraint [CK_StateProvince_CountryRegionCode] check ([CountryRegionCode] not like('[0-9]'));
24
25  /* Task d) */
26  alter table [StateProvince] add constraint [DF_StateProvince_ModifiedDate] default GETDATE() for [ModifiedDate];
27
28  /* Task e) */
29  set identity_insert [StateProvince] on;
30  insert into [StateProvince] (
31      [CountryRegionCode],
32      [IsOnlyStateProvinceFlag],
33      [ModifiedDate],
34      [Name],
35      [StateProvinceCode],
36      [StateProvinceID],
37      [TerritoryID]
38  ) select
39      [CountryRegionCode],
40      [IsOnlyStateProvinceFlag],
41      [ModifiedDate],
42      [Name],
43      [StateProvinceCode],
44      [StateProvinceID],
45      [TerritoryID]
46  from [Person].[StateProvince] sp
47  where sp.[CountryRegionCode] = sp.StateProvinceCode;
48  set identity_insert [StateProvince] off;
49
50  /* Task f) */
51  alter table [StateProvince] drop column [IsOnlyStateProvinceFlag];
52  alter table [StateProvince] add [CountryNum] int null;
53
```

```
Messages    Live Query Statistics

(0 rows affected)

(3 rows affected)

(1 row affected)

(7 rows affected)

(6 rows affected)

(1 row affected)

Completion time: 2020-09-30T22:17:58.4168020+03:00
```

Селект из конечной таблицы dbo.StateProvince:


```sql
1  /****** Script for SelectTopNRows command from SSMS  ******/
2  SELECT TOP (1000) [StateProvinceID]
3        ,[StateProvinceCode]
4        ,[CountryRegionCode]
5        ,[Name]
6        ,[TerritoryID]
7        ,[ModifiedDate]
8        ,[CountryNum]
9    FROM [AW].[dbo].[StateProvince]
```

	StateProvinceID	StateProvinceCode	CountryRegionCode	Name	TerritoryID	ModifiedDate	CountryNum
1	5	AS	AS	American Samoa	1	2008-03-11 10:17:21.587	NULL
2	16	FM	FM	Micronesia	9	2008-03-11 10:17:21.587	NULL
3	34	MH	MH	Marshall Islands	9	2008-03-11 10:17:21.587	NULL
4	38	MP	MP	Northern Mariana Islands	9	2008-03-11 10:17:21.587	NULL
5	62	PW	PW	Palau	9	2008-03-11 10:17:21.587	NULL
6	76	VI	VI	Virgin Islands	5	2008-03-11 10:17:21.587	NULL
7	84	FR	FR	France	7	2002-06-01 00:00:00.000	NULL