

Вариант 10

Дубовская Екатерина, 751001

Задание 1

1. Вывести на экран почасовую ставку каждого сотрудника, округленную до целого числа.
2. Вывести на экран порядковый номер изменения почасовой ставки для каждого сотрудника по дате изменения ставки.
3. Вывести на экран информацию об отделах и работающих в них сотрудниках, отсортированную по полю JobTitle, а затем по полю HireDate в порядке убывания (если JobTitle сотрудника содержит одно слово) или по полю BirthDate в порядке убывания (если JobTitle сотрудника содержит несколько слов).

Результаты выполнения Задачи 1:

2.1.1

	BusinessEntit...	JobTitle	RoundR...	Rate
1	1	Chief Executive Officer	126,00	125,50
2	2	Vice President of Engineering	63,00	63,4615
3	3	Engineering Manager	43,00	43,2692
4	4	Senior Tool Designer	9,00	8,62
5	4	Senior Tool Designer	24,00	23,72
6	4	Senior Tool Designer	30,00	29,8462
7	5	Design Engineer	33,00	32,6923
8	6	Design Engineer	33,00	32,6923
9	7	Research and Development Manager	50,00	50,4808
10	8	Research and Development Engineer	41,00	40,8654
11	9	Research and Development Engineer	41,00	40,8654
12	10	Research and Development Manager	42,00	42,4808
13	11	Senior Tool Designer	29,00	28,8462
14	12	Tool Designer	25,00	25,00

Query executed successfully. | LAPTOP-FREPJAND (11.0 SP2) | LAPTOP-FREPJAND\Ekater... | AdventureWorks2012 | 00:00:00 | 316 rows

2.1.3

	BusinessEntit...	JobTitle	Rate	ChangeNum...
1	1	Chief Executive Officer	125,50	1
2	2	Vice President of Engineering	63,4615	1
3	3	Engineering Manager	43,2692	1
4	4	Senior Tool Designer	8,62	1
5	4	Senior Tool Designer	23,72	2
6	4	Senior Tool Designer	29,8462	3
7	5	Design Engineer	32,6923	1
8	6	Design Engineer	32,6923	1
9	7	Research and Development Manager	50,4808	1
10	8	Research and Development Engineer	40,8654	1
11	9	Research and Development Engineer	40,8654	1
12	10	Research and Development Manager	42,4808	1
13	11	Senior Tool Designer	28,8462	1
14	12	Tool Designer	25,00	1

Query executed successfully. | LAPTOP-FREPJAND (11.0 SP2) | LAPTOP-FREPJAND\Ekater... | AdventureWorks2012 | 00:00:00 | 316 rows

2.1.3

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Results Messages

	Name	JobTitle	HireDate	BirthDate
1	Finance	Accountant	2003-04-09	1973-08-01
2	Finance	Accountant	2003-03-22	1970-02-04
3	Finance	Accounts Manager	2003-03-03	1977-08-08
4	Finance	Accounts Payable Specialist	2003-04-02	1973-04-09
5	Finance	Accounts Payable Specialist	2003-03-15	1971-03-18
6	Finance	Accounts Receivable Specialist	2003-02-25	1978-10-22
7	Finance	Accounts Receivable Specialist	2003-01-19	1970-04-07
8	Finance	Accounts Receivable Specialist	2003-02-07	1970-03-26
9	Information Services	Application Specialist	2003-03-07	1982-04-14
10	Information Services	Application Specialist	2003-01-24	1979-03-03
11	Information Services	Application Specialist	2003-02-12	1975-07-28
12	Information Services	Application Specialist	2003-03-20	1972-06-19
13	Finance	Assistant to the Chief Financial Officer	2003-02-13	1958-07-23
14	Human Resources	Benefits Specialist	2003-01-26	1978-12-22

Query executed successfully. | LAPTOP-FREPIAND (11.0 SP2) | LAPTOP-FREPIAND\Ekater... | AdventureWorks2012 | 00:00:00 | 296 rows

Задание 2

- создайте таблицу `dbo.Employee` с такой же структурой как `HumanResources.Employee`, кроме полей `OrganizationLevel`, `SalariedFlag`, `CurrentFlag`, а также кроме полей с типом `hierarchyid`, `uniqueidentifier`, не включая индексы, ограничения и триггеры;
- используя инструкцию `ALTER TABLE`, добавьте в таблицу `dbo.Employee` новое поле `ID`, которое является первичным ключом типа `bigint` и имеет свойство `identity`. Начальное значение для поля `identity` задайте 0 и приращение задайте 2;
- используя инструкцию `ALTER TABLE`, создайте для таблицы `dbo.Employee` ограничение для поля `BirthDate`, запрещающее заполнение поля датами ранее 1900 года и позже текущей даты;
- используя инструкцию `ALTER TABLE`, создайте для таблицы `dbo.Employee` ограничение `DEFAULT` для поля `HireDate`, задайте значение по умолчанию текущую дату;
- заполните новую таблицу данными из `HumanResources.Employee` только для тех сотрудников, у которых `EmailPromotion = 0` в таблице `Person.Person`. Поле `HireDate` заполните значениями по умолчанию;
- измените тип поля `MaritalStatus` на `NVARCHAR(1)` и разрешите добавление `null` значений для него.

Результаты выполнения Задачи 1:

2.2.1

Results

Messages

	Name	Own...	Type	Created_datetime
1	Employee	dbo	user table	2020-09-12 15:42:15.100

	Column_name	Type	Comput...	Len...	Pr...	Sc...	Nulla...	TrimTrailingBla...	FixedLenNullInSou...	Collation
1	BusinessEntityID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	NationalIDNumber	nvarchar	no	30			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
3	LoginID	nvarchar	no	512			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
4	JobTitle	nvarchar	no	100			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
5	BirthDate	date	no	3	10	0	no	(n/a)	(n/a)	NULL
6	MaritalStatus	nchar	no	2			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
7	Gender	nchar	no	2			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
8	HireDate	date	no	3	10	0	no	(n/a)	(n/a)	NULL
9	VacationHours	smallint	no	2	5	0	no	(n/a)	(n/a)	NULL
10	SickLeaveHours	smallint	no	2	5	0	no	(n/a)	(n/a)	NULL
11	ModifiedDate	datetime	no	8			no	(n/a)	(n/a)	NULL

	Identity	Seed	Increm...	Not For Replicat...
1	No identity column defined.	NULL	NULL	NULL

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegr...
1	PRIMARY

2.2.2-4

	Name	Own...	Type	Created_datetime
1	Employee	dbo	user table	2020-09-29 20:56:25.553

	Column_name	Type	Comput...	Len...	Pr...	Sc...	Nulla...	TrimTrailingBla...	FixedLenNullInSou...	Collation
5	BirthDate	date	no	3	10	0	no	(n/a)	(n/a)	NULL
6	MaritalStatus	nchar	no	2			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
7	Gender	nchar	no	2			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
8	HireDate	date	no	3	10	0	no	(n/a)	(n/a)	NULL
9	VacationHours	smallint	no	2	5	0	no	(n/a)	(n/a)	NULL
10	SickLeaveHours	smallint	no	2	5	0	no	(n/a)	(n/a)	NULL
11	ModifiedDate	datetime	no	8			no	(n/a)	(n/a)	NULL
12	ID	bigint	no	8	19	0	no	(n/a)	(n/a)	NULL

	Identity	Se...	Increm...	Not For Replicat...
1	ID	0	2	0

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegr...
1	PRIMARY

	constraint_type	constraint_name	delete_acti...	update_act...	status_enab...	status_for_replica...	constraint_keys
1	CHECK on column BirthDate	birth_date_check	(n/a)	(n/a)	Enabled	Is_For_Replication	([BirthDate]>CONVERT([datetime],'19
2	DEFAULT on column HireDate	default_type	(n/a)	(n/a)	(n/a)	(n/a)	(getdate())

2.2.5

Messages

(162 row(s) affected)

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Query executed successfully.

LAPTOP-FREPIAND (11.0 SP2)

LAPTOP-FREPIAND\Ekater...

AdventureWorks2012

00:00:00 0 rows

100 %

Results Messages

	BusinessEntit...	NationalIDNum...	LoginID	JobTitle	BirthDate	MaritalStat...	Gen...	HireDate	V ^
1	22	95958330	adventure-works\sariya0	Marketing Specialist	1981-06-21	S	M	2020-09-29	4
2	23	767955365	adventure-works\mary0	Marketing Specialist	1956-10-14	M	F	2020-09-29	4
3	24	72636981	adventure-works\jill0	Marketing Specialist	1973-07-19	M	F	2020-09-29	4
4	25	519899904	adventure-works\james1	Vice President of Production	1977-02-07	S	M	2020-09-29	6
5	26	277173473	adventure-works\peter0	Production Control Manager	1976-12-04	M	M	2020-09-29	4
6	27	446466105	adventure-works\jo0	Production Supervisor - WC60	1950-11-09	S	F	2020-09-29	8
7	28	14417807	adventure-works\guy1	Production Technician - WC60	1976-05-15	M	M	2020-09-29	2
8	11	974026903	adventure-works\lovidiu0	Senior Tool Designer	1972-02-18	S	M	2020-09-29	7
9	9	658797903	adventure-works\gigi0	Research and Development Engineer	1973-02-21	M	F	2020-09-29	6
10	8	811994146	adventure-works\diane1	Research and Development Engineer	1980-07-06	S	F	2020-09-29	6
11	6	998320692	adventure-works\jossef0	Design Engineer	1953-04-11	M	M	2020-09-29	6
12	5	695256908	adventure-works\gail0	Design Engineer	1946-10-29	M	F	2020-09-29	5
13	4	112457891	adventure-works\rob0	Senior Tool Designer	1969-01-23	S	M	2020-09-29	4
14	3	509647174	adventure-works\roberto0	Engineering Manager	1968-12-13	M	M	2020-09-29	2
15	1	295847284	adventure-works\ken0	Chief Executive Officer	1963-03-02	S	M	2020-09-29	9
16	30	410742000	adventure-works\britta0	Production Technician - WC60	1983-10-30	M	F	2020-09-29	1
17	33	801758002	adventure-works\lannik0	Production Technician - WC60	1971-01-27	M	M	2020-09-29	1
18	37	442121106	adventure-works\chris2	Production Technician - WC60	1980-09-07	S	M	2020-09-29	1
19	59	843479922	adventure-works\bob0	Production Technician - WC50	1973-09-16	S	M	2020-09-29	1
20	61	92096924	adventure-works\diane2	Production Technician - WC50	1983-09-10	S	F	2020-09-29	8
21	63	414476027	adventure-works\maciej0	Production Technician - WC60	1949-03-02	S	M	2020-09-29	3
22	65	8066363	adventure-works\randv0	Production Technician - WC60	1964-05-29	M	M	2020-09-29	2

Query executed successfully. LAPTOP-FREPIAND (11.0 SP2) LAPTOP-FREPIAND\Ekater... AdventureWorks2012 00:00:00 162 rows

2.2.6

Results Messages

Name	Own...	Type	Created_datetime
Employee	dbo	user table	2020-09-12 15:42:15.100

Column_name	Type	Comput...	Len...	Pr...	Sc...	Nulla...	TrimTrailingBl...	FixedLenNullInSou...	Collation
BusinessEntityID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
NationalIDNumber	nvarchar	no	30			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
LoginID	nvarchar	no	512			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
JobTitle	nvarchar	no	100			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
BirthDate	date	no	3	10	0	no	(n/a)	(n/a)	NULL
MaritalStatus	nvarchar	no	2			yes	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
Gender	nchar	no	2			no	(n/a)	(n/a)	SQL_Latin1_General_CP1_CI_AS
HireDate	date	no	3	10	0	no	(n/a)	(n/a)	NULL

Identity	Se...	Increm...	Not For Replicat...
ID	0	2	0

RowGuidCol
No rowguidcol column defined.

Data_located_on_filegr...
PRIMARY

constraint_type	constraint_name	delete_acti...	update_acti...	status_enab...	status_for_replica...	constraint_keys
CHECK on column BirthDate	CK_Employee__BirthD__5FD33367	(n/a)	(n/a)	Enabled	Is_For_Replication	([BirthDate]>CONVERT([datetime],'19000101',(11
DEFAULT on column HireDate	DF_Employee__HireDa__60C757A0	(n/a)	(n/a)	(n/a)	(n/a)	(getdate())

Table is referenced by vi...