

به نام خدا



ازمایشگاه 4 پایگاه داده

حدیث غفوری (9825413)

```
select Name, Europe, [North America], Pacific
from
(
select p.Name, [Group], OrderQty
from Sales.SalesOrderDetail as d
inner join Sales.SalesOrderHeader as h
on d.SalesOrderID = h.SalesOrderID
inner join Sales.SalesTerritory as t
on h.TerritoryID = t.TerritoryID
inner join Production.Product as p
on d.ProductID = p.ProductID
)as srcTable
pivot(
count(OrderQty)
for [Group] in (Europe, [North America], Pacific)
)as pvt
```

136 %

Results Messages

	Name	Europe	North America	Pacific
1	All-Purpose Bike Stand	67	117	65
2	AWC Logo Cap	1000	1925	457
3	Bike Wash - Dissolver	294	793	240
4	Cable Lock	30	230	0
5	Chain	55	167	28

Query executed successfully.

سوال 2

```
select PersonType,M,F
from
(
select Person.BusinessEntityID, PersonType, Gender
from Person.Person join HumanResources.Employee
on (
Person.BusinessEntityID =Employee.BusinessEntityID)
)as srcTable
pivot(
count(BusinessEntityID)
for Gender in (F,M)
)as pvt
```

	PersonType	M	F
1	EM	196	77
2	SP	10	7

سوال 3

-----سوال 3-----

```
select Name
from Production.Product as p
where LEN(p.Name) < 15
and
PATINDEX('%e%',p.Name) =LEN(p.Name) -1;
```

	Name
1	Front Brakes
2	HL Crankset
3	LL Crankset
4	ML Crankset
5	Paint - Red
6	Paint - Silver
7	Spokes
8	Stem

```

-----سوال 4-----
IF OBJECT_ID (N'dbo.checkDate', N'FN') IS NOT NULL
DROP FUNCTION dbo.checkDate;
GO
CREATE FUNCTION dbo.checkDate(@dateformat varchar(10))
RETURNS varchar(120)
AS
BEGIN
DECLARE @ans smallint;
DECLARE @day varchar(2);
DECLARE @month varchar(2);
DECLARE @persion_month varchar(20);
DECLARE @year varchar(4);
select @day = SUBSTRING(@dateformat,9,10)
select @month = SUBSTRING(@dateformat,6,7)
select @year = SUBSTRING(@dateformat,1,4)
SELECT @ans = CASE
WHEN @dateformat LIKE '[1-3][0-9][0-9][0-9]/[0-1][0-9]/[0-3][0-9]'
and @day < 32
and @month < 13

```

135 %

Results Messages

	(No column name)
1	shamsi1390monthEsfand31

```

        set @persion_month = 'Shahrivar'
    else if(@month = '07')
        set @persion_month = 'Mehr'
    else if(@month = '08')
        set @persion_month = 'Aban'
    else if(@month = '09')
        set @persion_month = 'Azar'
    else if(@month = '10')
        set @persion_month = 'Dey'
    else if(@month = '11')
        set @persion_month = 'Bahman'
    else if(@month = '12')
        set @persion_month = 'Esfand'

    return 'shamsi'+@year+'month'+@persion_month+@day;
END
ELSE
return 'output format is incorrect';
return '';
END;
GO
select dbo.checkDate('1390/12/31');
--select dbo.checkDate('1320/12/1sd1');

```

135 %

Results Messages

	(No column name)
1	shamsi1390monthEsfand31

```
IF OBJECT_ID (N'find_sales_places', N'IF') IS NOT NULL
DROP FUNCTION find_sales_places;
GO

CREATE FUNCTION find_sales_places (@entered_year int,@entered_month int,@product_name varchar(60))
RETURNS TABLE
AS
RETURN
(
select distinct t.Name
from Production.Product as p
inner join Sales.SalesOrderDetail as d on (p.ProductID = d.ProductID)
inner join Sales.SalesOrderHeader as h on (d.SalesOrderID = h.SalesOrderID)
inner join Sales.SalesTerritory as t on (t.TerritoryID = h.TerritoryID)
where p.Name = @product_name and month(h.orderDate) =@entered_month and year(h.orderDate) = @entered_year
);
GO
```

149 %

Messages

Commands completed successfully.

```
GO

select * from find_sales_places(2005,8,'Sport-100 Helmet, Red');
```

180 %

Results Messages

	Name
1	Canada
2	Central
3	Northeast
4	Northwest
5	Southeast
6	Southwest