-- sql select - part II

-- # 1

select od.productid, o.shipcountry, sum(od.quantity) as totalquantity

from [order details] as od

join orders as o on od.orderid=o.orderid

where o.employeeid=2

group by od.productid, o.shipcountry

order by od.productid, o.shipcountry

-- # 2

select distinct c.companyname

from customers as c

join orders as o on o.customerid=c.customerid

join [order details] as od on od.orderid=o.orderid

join products as p on p.productid=od.productid

where p.productname='Chocolade'

-- # 3 -> zmieniamy 2000 na 1997 i 100 na 20, zeby byly jakies wyniki :D

select e.firstname as imie, e.lastname as nazwisko, sum(od.quantity) as totalquantity

from employees as e

join orders as o on e.employeeid=o.employeeid

join [order details] as od on od.orderid=o.orderid

join products as p on p.productid=od.productid

where p.productname='Chocolade' and year(o.orderdate)=1997

group by e.firstname, e.lastname

having sum(od.quantity)>20

-- # 4 -> srednio 50 jednostek tego produktu jest zamawiane w jednym zamowieniu -> zmieniam na 25

select p.productname

from products as p

join [order details] as od on p.productid=od.productid

join orders as o on o.orderid=od.orderid

join customers as c on c.customerid=o.customerid

where c.country='Italy' and p.productid in (

select od2.productid

from [order details] as od2

group by od2.productid

having avg(od2.quantity)>=25

)

group by p.productname

order by count(\*) desc

-- # 5

select distinct p.productname

from products as p

join [order details] as od on p.productid=od.productid

join orders as o on o.orderid=od.orderid

where exists (

select od2.productid

from [order details] as od2

join orders as o2 on o2.orderid=od2.orderid

where o2.shipcountry='France' and p.productid=od2.productid

) and not exists (

select od3.productid

from [order details] as od3

join orders as o3 on o3.orderid=od3.orderid

where o3.shipcountry='Belgium' and p.productid=od3.productid

)

select distinct pr.ProductName

from Products pr

join [Order Details] od on od.ProductID=pr.ProductID

join Orders ord on od.OrderID=ord.OrderID

where ShipCountry='France'

except

select distinct pr.ProductName

from Products pr

join [Order Details] od on od.ProductID=pr.ProductID

join Orders ord on od.OrderID=ord.OrderID

where ShipCountry='Belgium'

select distinct pr.ProductName

from Products pr

join [Order Details] od on od.ProductID=pr.ProductID

join Orders ord on od.OrderID=ord.OrderID

where ShipCountry='France' and pr.ProductName not in (

select distinct pr.ProductName

from Products pr

join [Order Details] od on od.ProductID=pr.ProductID

join Orders ord on od.OrderID=ord.OrderID

where ShipCountry='Belgium'

)

-- # 6

select c.companyname, p.productname, o.orderdate, od.quantity

from customers as c

join orders as o on c.customerid=o.customerid

join [order details] as od on od.orderid=o.orderid

join products as p on p.productid=od.productid

where c.city='Berlin'

order by c.companyname, p.productname, o.orderdate

-- # 7

select distinct p.productname

from products as p

join [order details] as od on p.productid=od.productid

join orders as o on o.orderid=od.orderid

where o.shipcountry='France' and year(o.orderdate)=1998

-- # 8

select c.companyname

from customers as c

where c.customerid in (

select distinct customerid

from orders

group by customerid

having count(customerid)>=5

) and c.customerid not in (

select distinct customerid

from orders as o2

join [order details] as od2 on o2.orderid=od2.orderid

join products as p2 on p2.productid=od2.productid

where p2.productname like 'Ravioli%'

)

-- # 9

select distinct od.orderid

from orders as o

join [order details] as od on od.orderid=o.orderid

where o.customerid in (

select customerid

from customers

where country='France'

)

group by od.orderid

having count(distinct od.productid)>2

-- # 10

select companyname

from customers

where customerid in (

select customerid

from orders

where shipcountry='France'

group by customerid

having count(customerid)>=5

) and customerid not in (

select customerid

from orders

where shipcountry='Belgium'

group by customerid

having count(customerid)>2)

select companyname

from customers as c

join orders as o on o.customerid=c.customerid

group by companyname

having sum(case when o.shipcountry='France' then 1 else 0 end)>=5

and sum(case when o.shipcountry='Belgium' then 1 else 0 end)<=2

-- # 11

select distinct p.productname, c.companyname

from customers as c

join orders as o on o.customerid=c.customerid

join [order details] as od on od.orderid=o.orderid

join products as p on p.productid=od.productid

join (

select productid, max(quantity) as maks

from [order details]

group by productid

) as m on od.quantity=m.maks and od.productid=m.productid

order by p.productname

-- # 12

select o.employeeid

from orders as o

group by o.employeeid

having count(o.orderid)>1.2\*(

select avg(ile)

from(

select count(\*) as ile

from orders as o2

group by o2.employeeid

) as srednia

)

-- # 13

select top 5 orderid, count(distinct productid) as ileroznychproduktow

from [order details]

group by orderid

order by ileroznychproduktow desc

-- # 14

select od.productid

from [order details] as od

join orders as o on o.orderid=od.orderid

group by od.productid

having sum(case when year(o.orderdate)=1997 then 1 else 0 end)>

sum(case when year(o.orderdate)=1996 then 1 else 0 end)

order by od.productid

-- # 15

select p.productname,

sum(case when year(o.orderdate)=1996 then 1 else 0 end) as nr6,

sum(case when year(o.orderdate)=1997 then 1 else 0 end) as nr7,

sum(case when year(o.orderdate)=1998 then 1 else 0 end) as nr8

from products as p

join [order details] as od on od.productid=p.productid

join orders as o on o.orderid=od.orderid

group by p.productname

order by p.productname