1. satu

select persontype as persontypecode,

case

when persontype = 'IN' then 'individual customer'

when persontype = 'EM' then 'employee'

when persontype = 'SP' then 'sales person'

when persontype = 'SC' then 'sales contact'

when persontype = 'VC' then 'vendor contact'

when persontype = 'GC' then 'general contact'

end persontype, sum(1) as totalperson

from person.person group by persontypecode;

1. dua

select p.businessentityid as businessentityid,

case

when p.middlename is not null then concat(p.firstname, ' ', p.middlename, ' ', p.lastname)

else concat(p.firstname, ' ', p.lastname) end as fullname,

e.emailaddress as emailaddress, pp.phonenumber as phonenumber,

concat(a.addressline1, ' ' , a.addressline2) as address, at.name as addresstype

from person.person as p

join person.businessentityaddress as bea on p.businessentityid = bea.businessentityid

join person.address as a on bea.addressid = a.addressid

join person.stateprovince as sp on a.stateprovinceid = sp.stateprovinceid

join person.countryregion as cr on sp.countryregioncode = cr.countryregioncode

join person.personphone as pp on p.businessentityid = pp.businessentityid

join person.emailaddress as e on p.businessentityid = e.businessentityid

join person.businessentity as b on p.businessentityid = b.businessentityid

join person.businessentityaddress as bea2 on b.businessentityid = bea2.businessentityid and bea2.addressid = 1

join person.address as a2 on bea2.addressid = a2.addressid

join person.addresstype as at on bea.addresstypeid = at.addresstypeid

where cr.countryregioncode = 'US';

--hanya 1 record. Apa benar?

1. tiga

select cr.countryregioncode as countryregioncode,

cr.name as countryname,

case p.persontype

when 'IN' then 'individual customer'

when 'EM' then 'employee'

when 'SP' then 'sales person'

when 'SC' then 'sales contact'

when 'VC' then 'vendor contact'

when 'GC' then 'general contact'

end as persontypedesc, count(\*) as totalpersons

from person.person as p

join person.businessentityaddress as bea on p.businessentityid = bea.businessentityid

join person.address as a on bea.addressid = a.addressid

join person.stateprovince as sp on a.stateprovinceid = sp.stateprovinceid

join person.countryregion as cr on sp.countryregioncode = cr.countryregioncode

group by cr.countryregioncode, cr.name, p.persontype order by cr.countryregioncode, p.persontype;

1. empat

select cr.countryregioncode, cr.name,

sum(case when p.persontype = 'in' then 1 else 0 end) as individualcustomer,

sum(case when e.businessentityid is not null then 1 else 0 end) as employee,

sum(case when s.salesperson is not null then 1 else 0 end) as salesperson,

sum(case when ph.phonenumber is not null and at.name = 'sales' then 1 else 0 end) as salescontact,

sum(case when v.phone is not null then 1 else 0 end) as vendorcontact,

sum(case when ph.phonenumber is not null and at.name != 'sales' then 1 else 0 end) as generalcontact

from person.person as p

join person.businessentityaddress as bea on p.businessentityid = bea.businessentityid and bea.addressid = 1

join person.address as a on bea.addressid = a.addressid

join person.stateprovince as sp on a.stateprovinceid = sp.stateprovinceid

join person.countryregion as cr on sp.countryregioncode = cr.countryregioncode

left join humanresources.employee as e on p.businessentityid = e.businessentityid

left join sales.salesperson as s on p.businessentityid = s.businessentityid

left join person.personphone as ph on p.businessentityid = ph.businessentityid

left join person.phonenumbertype as pnt on ph.phonenumbertypeid = pnt.phonenumbertypeid

left join person.addresstype as at on bea.addresstypeid = at.addresstypeid

left join purchasing.vendor as v on p.businessentityid = v.businessentityid

group by cr.countryregioncode, cr.name

--masih error

1. lima

select d.departmentid, d.name, count(distinct e.businessentityid) as total\_employee

from humanresources.department d

join humanresources.employeedepartmenthistory edh on d.departmentid = edh.departmentid

join humanresources.employee e on edh.businessentityid = e.businessentityid

group by d.departmentid, d.name;

1. enam

select d.name as department\_name,

count(case when edh.shiftid = 1 then e.businessentityid end) as day,

count(case when edh.shiftid = 2 then e.businessentityid end) as evening,

count(case when edh.shiftid = 3 then e.businessentityid end) as night

from humanresources.department d

join humanresources.employeedepartmenthistory edh

on d.departmentid = edh.departmentid

join humanresources.employee e

on edh.businessentityid = e.businessentityid

join humanresources.shift s

on edh.shiftid = s.shiftid

group by d.name;

1. tujuh

select v.accountnumber, v.name as vendor\_name,

sum(case when p.status = 1 then 1 else 0 end) as pending,

sum(case when p.status = 2 then 1 else 0 end) as approved,

sum(case when p.status = 3 then 1 else 0 end) as rejected,

sum(case when p.status = 4 then 1 else 0 end) as completed

from purchasing.purchaseorderheader p

join purchasing.vendor v on p.vendorid = p.vendorid

where p.status in (1, 2, 3, 4) group by v.accountnumber, v.name order by completed desc;

--perbaiki: jumlah masing masing status masih error?

1. delapan

select s.customerid, p.firstname || ' ' || p.lastname as customername,

sum(case when s.status = 1 then 1 else 0 end) as inprocess,

sum(case when s.status = 2 then 1 else 0 end) as approved,

sum(case when s.status = 3 then 1 else 0 end) as backordered,

sum(case when s.status = 4 then 1 else 0 end) as rejected,

sum(case when s.status = 5 then 1 else 0 end) as shipped,

sum(case when s.status = 6 then 1 else 0 end) as cancelled

from sales.salesorderheader s join person.person p on s.customerid = p.businessentityid

group by s.customerid, p.firstname, p.lastname order by s.customerid asc;

--hanya shipped yang ada record. Apa benar?

1. sembilan

select c.customerid, p.firstname || ' ' || p.lastname as customername,

sum(case when pr.productcategoryid = 1 then 1 else 0 end) as accesories,

sum(case when pr.productcategoryid = 2 then 1 else 0 end) as bikes,

sum(case when pr.productcategoryid = 3 then 1 else 0 end) as components,

sum(case when pr.productcategoryid = 4 then 1 else 0 end) as clothing

from sales.customer c

join sales.salesorderheader so on c.customerid = so.customerid

join sales.salesorderdetail sod on so.salesorderid = sod.salesorderid

join production.productcategory pr on pr.productcategoryid = pr.productcategoryid

join person.person p on c.personid = p.businessentityid

group by customername, c.customerid order by customername asc;

--hasil record sama rata di setiap kategori yg dibeli customer. Apa benar?

1. sepuluh

select

pr.productid,

pr.name as productname,

s.discountpct,

extract(year from s.startdate) as yeardisc,

sum(case when date\_part('month', s.startdate) = 1 then s.discountpct else 0 end) as "jan",

sum(case when date\_part('month', s.startdate) = 2 then s.discountpct else 0 end) as "feb",

sum(case when date\_part('month', s.startdate) = 3 then s.discountpct else 0 end) as "mar",

sum(case when date\_part('month', s.startdate) = 4 then s.discountpct else 0 end) as "apr",

sum(case when date\_part('month', s.startdate) = 5 then s.discountpct else 0 end) as "may",

sum(case when date\_part('month', s.startdate) = 6 then s.discountpct else 0 end) as "jun",

sum(case when date\_part('month', s.startdate) = 7 then s.discountpct else 0 end) as "jul",

sum(case when date\_part('month', s.startdate) = 8 then s.discountpct else 0 end) as "aug",

sum(case when date\_part('month', s.startdate) = 9 then s.discountpct else 0 end) as "sep",

sum(case when date\_part('month', s.startdate) = 10 then s.discountpct else 0 end) as "oct",

sum(case when date\_part('month', s.startdate) = 11 then s.discountpct else 0 end) as "nov",

sum(case when date\_part('month', s.startdate) = 12 then s.discountpct else 0 end) as "dec"

from production.product pr

join sales.specialofferproduct sp on pr.productid = sp.productid

join sales.specialoffer s on sp.specialofferid = s.specialofferid

where s.type <> 'no discount'

group by pr.productid, pr.name, s.discountpct, yeardisc order by pr.productid