

```

-- question 1
SELECT pp.FirstName
, pp.LastName
, pa.AddressLine1 as 'Address'
, pa.City
, psp.[Name] AS State
, EmailAddress
, PhoneNumber
, ppnt.[Name] AS PhoneType
FROM Person.Person pp
INNER JOIN Person.BusinessEntity pbe
ON pp.BusinessEntityID = pbe.BusinessEntityID
INNER JOIN Person.BusinessEntityAddress pbea
ON pbea.BusinessEntityID = pbe.BusinessEntityID
INNER JOIN Person.[Address] pa
ON pa.AddressID = pbea.AddressID
INNER JOIN Person.StateProvince psp
ON psp.StateProvinceID = pa.StateProvinceID
INNER JOIN Person.CountryRegion pcr
ON pcr.CountryRegionCode = psp.CountryRegionCode
INNER JOIN Person.EmailAddress pea
ON pea.BusinessEntityID = pp.BusinessEntityID
INNER JOIN Person.PersonPhone ppp
ON ppp.BusinessEntityID = pp.BusinessEntityID
INNER JOIN person.PhoneNumberType ppnt
ON ppnt.PhoneNumberTypeID = ppp.PhoneNumberTypeID
WHERE (pa.city = 'Yakima' AND psp.Name = 'Washington')
OR (pa.city = 'Birmingham' AND psp.Name = 'England')
OR (pa.city = 'Columbus' AND psp.Name = 'Ohio')
OR (pa.city = 'Cambridge' AND psp.Name = 'England')
OR (pa.city = 'Burbank' AND psp.Name = 'California')
ORDER BY pa.City, pp.LastName, pp.FirstName;

-- question 2
SELECT pp.FirstName, pp.Lastname, hre.JobTitle, FORMAT(hre.BirthDate, 'MMM dd
yyyy') AS 'Birth Day', hrs.Name 'Shift Name'
FROM Person.Person pp
INNER JOIN HumanResources.Employee hre
ON hre.BusinessEntityID = pp.BusinessEntityID
INNER JOIN HumanResources.EmployeeDepartmentHistory hredh
ON hre.BusinessEntityID = hredh.BusinessEntityID
INNER JOIN HumanResources.Shift hrs
ON hrs.ShiftID = hredh.ShiftID
ORDER BY hre.JobTitle, pp.LastName, pp.firstname;

-- question 3
SELECT pv.Name AS 'Vendor Name', PROp.name AS 'Product Name'
FROM purchasing.Vendor pv
inner join Purchasing.ProductVendor PURpv
ON pv.BusinessEntityID = PURpv.BusinessEntityID
INNER JOIN PRODUCTION.Product PROp
ON PROp.ProductID = pURpv.ProductID
WHERE prop.name LIKE '%Peda%'
ORDER BY pv.name, PROp.name;

-- question 4
SELECT pp.name AS 'Product Name'
, pp.StandardCost as 'Standard Cost'

```

```
, pp.listPrice as 'List Price'
, ppi.Quantity as 'Quantity'
, pl.name as 'Location Name'
from production.ProductInventory ppi
inner join production.location pl
on ppi.LocationID = pl.LocationID
inner join Production.Product pp
on ppi.ProductID = pp.ProductID
WHERE pp.ListPrice > 0
and pl.name='Final Assembly'
and (ppi.Quantity > 200 AND ppi.Quantity < 500)
order by pp.StandardCost, ppi.Quantity;
```

```
-- question 5
SELECT production.product.name AS 'Product Name'
, production.ScrapReason.name AS 'Scraped Reason'
, Production.Product.Size as 'Drill size (cm)'
FROM Production.Product
INNER JOIN production.WorkOrder
ON Production.WorkOrder.ProductID = Production.Product.ProductID
inner join Production.ScrapReason
ON Production.ScrapReason.ScrapReasonID = Production.WorkOrder.ScrapReasonID
WHERE Production.ScrapReason.name LIKE '%drill size%'
ORDER BY Production.Product.name, production.ScrapReason.name;
```

```
-- question 6 it works!!
```

```
SELECT PV.Name AS 'Vendor Name'
, pp.Name AS 'Product Name'
, ppoh.ShipDate AS 'Ship Date'
, (Ppod.OrderQty - Ppod.ReceivedQty) AS 'DifferenceRecieved'
FROM Purchasing.Vendor pv
inner join Purchasing.PurchaseOrderHeader ppoh
on ppoh.VendorID = pv.BusinessEntityID
inner join Purchasing.PurchaseOrderDetail ppod
on ppod.PurchaseOrderID = ppoh.PurchaseOrderID
inner join Production.Product pp
on ppod.ProductID = pp.productID
where ppod.ReceivedQty < ppod.OrderQty - 50
ORDER BY 'DifferenceRecieved' DESC;
```

```
-- question 7 WORKS
select pp.name AS 'Product Name'
, pps.name AS 'Product Subcategory name'
, ppc.name AS 'Product Category Name'
, ppm.name AS 'Product model name'
FROM production.Product pp
inner join Production.ProductSubcategory pps
on pp.ProductSubcategoryID = pps.ProductSubcategoryID
inner join production.ProductCategory ppc
on pps.ProductCategoryID = ppc.ProductCategoryID
inner join production.ProductModel ppm
ON pp.ProductModelID = ppm.ProductModelID
where pps.name LIKE '%road bikes%' OR pps.name LIKE '%mountain bikes%'
order by pp.name, ppc.name, pps.name;
```

```

-- question 8
select pp.name AS 'Product Name'
, ssod.OrderQty AS 'Sales Order Quantity'
, ssod.OrderDate AS 'sales order date'
, ssod.DueDate AS 'Sales Due Date'
, case when ssod.onlineorderflag = 1 THEN 'yes'
when ssod.onlineorderflag = 0 THEN 'no' END as 'Ordered Online'
from production.product pp
inner join sales.SalesOrderDetail ssod
on ssod.ProductID = pp.ProductID
inner join sales.SalesOrderHeader ssodh
on ssod.SalesOrderID = ssodh.SalesOrderID
WHERE (FORMAT(ssodh.OrderDate, 'MMM yyyy') = 'JUN 2011'
OR FORMAT(ssodh.OrderDate, 'MMM yyyy') = 'AUG 2013')
AND pp.name LIKE '%tire%'
ORDER BY ssodh.OrderDate;

-- question 9
select DISTINCT pp.firstname + ' ' + pp.lastname as 'Sales Person Name'
from sales.SalesOrderHeader ssodh
inner join sales.SalesPerson ssp
on ssp.BusinessEntityID = ssodh.SalesPersonID
inner join HumanResources.Employee hre
on ssp.BusinessEntityID = hre.BusinessEntityID
inner join person.Person pp
on hre.BusinessEntityID = pp.BusinessEntityID
WHERE pp.PersonType = 'SP'
AND MONTH(ssodh.OrderDate) = 1;

-- question 10
SELECT distinct pp.FirstName AS 'First Name'
, pp.LastName AS 'Last Name'
, sst.name AS 'Sales Territory'
, ssp.SalesYTD
, ssp.Bonus
, ssp.CommissionPct AS 'Commision percentage'
, ssp.SalesLastYear as 'Last year sales'
from sales.SalesOrderHeader ssodh
inner join sales.SalesPerson ssp
on ssp.BusinessEntityID = ssodh.SalesPersonID
inner join HumanResources.Employee hre
on ssp.BusinessEntityID = hre.BusinessEntityID
inner join person.Person pp
on hre.BusinessEntityID = pp.BusinessEntityID
inner join sales.SalesTerritory sst
on ssp.TerritoryID = sst.TerritoryID
WHERE pp.PersonType = 'SP'
Order BY sst.name, pp.LastName, pp.firstname;

```