1.

SELECT p.BusinessEntityID, p.FirstName, p.LastName, pp.PhoneNumber

FROM Person.PersonPhone pp

JOIN Person.Person p ON pp.BusinessEntityID = p.BusinessEntityID

WHERE LEFT(pp.PhoneNumber, 1) = '4'

AND RIGHT(LEFT(pp.PhoneNumber, 3), 1) = '5'

2. SELECT

BusinessEntityID,

BirthDate,

CASE

WHEN DATEDIFF(YEAR, BirthDate, GETDATE()) BETWEEN 17 AND 20 THEN 'Adolescence'

WHEN DATEDIFF(YEAR, BirthDate, GETDATE()) BETWEEN 21 AND 59 THEN 'Adults'

WHEN DATEDIFF(YEAR, BirthDate, GETDATE()) BETWEEN 60 AND 75 THEN 'Elderly'

WHEN DATEDIFF(YEAR, BirthDate, GETDATE()) BETWEEN 76 AND 90 THEN 'Senile'

ELSE 'Out of range'

END AS AgeCategory

FROM HumanResources.Employee

3.

SELECT TOP 1 WITH TIES Name, Color, StandardCost

FROM Production.Product

ORDER BY RANK() OVER (PARTITION BY Color ORDER BY StandardCost DESC)