SELECT \*,

case

when Public\_Nam in ('Arson - Non-residential',

'Arson - Residential',

'Burglary - Non-residential',

'Burglary - Residential','Fraud or Forgery','Motor Vehicle Theft','Possession of Stolen Property',

'Robbery - Business','Robbery - Residential','Robbery - Street','Robbery - Other',

'Theft - Gas Station Runout','Theft - Mail','Theft - Other','Theft - Vehicle Prowl','Theft -Shoplifing','Trafficking in Stolen Property'

) then 'PropertyCrime'

when Public\_Nam like '%Drug%' then 'DrugCrime'

when Public\_Nam = 'Homicide' then 'Homicide'

when Public\_Nam in ('Assault - Aggravated','Assault - Simple','Intimidation','Telephone Harassment','Vandalism - Non-residential','Vandalism - Residential') then 'PersonalCrime'

else 'OtherCrime'

end as CrimeCategory

FROM [19su5510\_lehuy].dbo.sampledata

WHERE Zipcode in ('98371', '98372', '98373','98374','98375')

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Pivot

Select \*

From [dbo].[groupedsample] a inner join

(select ParcelNumber,[DrugCrime],[Homicide],[OtherCrime],[PersonalCrime],[PropertyCrime]

from

(select ParcelNumber, CrimeCategory, NoofCrime

from [dbo].[groupedsample] ) as a

pivot (max(a.NoofCrime) for a.CrimeCategory in ([DrugCrime],[Homicide],[OtherCrime],[PersonalCrime],[PropertyCrime]))as p) b on a.ParcelNumber = b.ParcelNumber

Where a.ZipCode =

select a.AppraisalAccountType,

a.Buildings,

a.LandGrossSquareFeet,

a.LandNetSquareFeet,

a.AppraisalDate,

a.Latitude,

a.Longtitude,

a.BuildingID,

a.PropertyType,

a.SquareFeet,

a.PercentComplete,

a.Condition,

a.Quality,

a.PhysicalAge,

a.YearBuilt,

a.YearRemodeled,

a.AccountType,

a.TaxableValuePriorYear,

a.TaxableValueCurrentYear,

a.Zipcode,

b. [DrugCrime],b.[Homicide],b.[OtherCrime],b.[PersonalCrime],b.[PropertyCrime]

from [19su5510\_lehuy].dbo.groupedsample a right join

(select ParcelNumber,[DrugCrime],[Homicide],[OtherCrime],[PersonalCrime],[PropertyCrime]

from

(select ParcelNumber, CrimeCategory, NoofCrime

from [dbo].[groupedsample] ) as a

pivot (max(a.NoofCrime) for a.CrimeCategory in ([DrugCrime],[Homicide],[OtherCrime],[PersonalCrime],[PropertyCrime]))as p ) b

on a.ParcelNumber = b.ParcelNumber

WHERE Zipcode in ('98371', '98372', '98373','98374','98375')

-------------------------------------------------------------------------------------------------------

select a.ParcelNumber, a.AppraisalAccountType,

a.Buildings, a.LandGrossSquareFeet,

a.LandNetSquareFeet, a.AppraisalDate,

a.Latitude, a.Longtitude, a.BuildingID, a.PropertyType, a.SquareFeet, a.PercentComplete,

a.Condition, a.Quality, a.PhysicalAge,

a.YearBuilt, a.YearRemodeled,

a.AccountType, a.TaxableValuePriorYear,

a.TaxableValueCurrentYear, a.Zipcode, b. [DrugCrime],b.[Homicide],b.[OtherCrime],b.[PersonalCrime],b.[PropertyCrime]

from [dbo].[CompiledDataVersion1] a left join

(select ParcelNumber,[DrugCrime],[Homicide],[OtherCrime],[PersonalCrime],[PropertyCrime]

from

(select ParcelNumber, CrimeCategory, NoofCrime

from [dbo].[groupedsample] ) as a

pivot (max(a.NoofCrime) for a.CrimeCategory in ([DrugCrime],[Homicide],[OtherCrime],[PersonalCrime],[PropertyCrime]))as p ) b

on a.ParcelNumber = b.ParcelNumber

WHERE Zipcode in ('98371', '98372', '98373','98374','98375') and

a.ParcelNumber in( select l.ParcelNumber from LandCrimeDistanceSample l)

order by a.ParcelNumber

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R code

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library(tidyverse)

library(RODBC)

library(stringr)

library(psych)

conn <- odbcConnect("oitap22")

dfmn <- sqlQuery(conn,"select \* from [19su5510\_lehuy].[dbo].[groupeddatatull]")

apply(dfmn,2,range)

fullds <- dfmn %>% select( - ParcelNumber, -AppraisalAccountType, -AppraisalDate, - BuildingID, -AccountType, -PropertyType)

maxVals <- apply(fullds, 2,max)

minVals <- apply(fullds, 2,min)

dfmnN <- as.data.frame(scale(fullds

, center = minVals, scale = (maxVals-minVals)))

sapply(SalesMeetings, function(x) sum(is.na(x)))