**NASHVILLE HOUSING**  
select \* from [Nashville \_Housing\_DC]

----delete rows where owner name is null

delete from [Nashville \_Housing\_DC] where OwnerName is null

-----Add Year\_of\_sale column to table

Alter table [Nashville \_Housing\_DC]

add Year\_of\_Sale int

update [Nashville \_Housing\_DC]

set Year\_of\_Sale = year(saledate)

----add monthday name column to table

Alter table [Nashville \_Housing\_DC]

add Month\_of\_Sale varchar(255)

update [Nashville \_Housing\_DC]

set Month\_of\_Sale =left( DATENAME(month, saledate),3)

-----Add weekday name column to table

Alter table [Nashville \_Housing\_DC]

add Week\_Name varchar(50)

update [Nashville \_Housing\_DC]

set Week\_Name = left(DATENAME(weekday, saledate),3)

UPDATE [Nashville \_Housing\_DC]

SET Soldasvacant = TRIM(soldasvacant)

UPDATE [Nashville \_Housing\_DC]

SET Soldasvacant = case

when SoldAsVacant = 'Y' THEN 'Yes'

when SoldAsVacant = 'N' THEN 'No'

else 'SoldasVacant'

End

------Delete irrelevant columns

Alter table [Nashville \_Housing\_DC]

drop column OwnerName

-----Extract City name from property address and owneraddress columns

Alter table [Nashville \_Housing\_DC]

Add PropertyCity varchar(100)

Update [Nashville \_Housing\_DC]

Set Propertycity = Substring(PropertyAddress, Charindex(',' , PropertyAddress) +1, Len(PropertyAddress)) from [Nashville \_Housing\_DC]

-----Drop Irrelevant propertyaddress column

Alter table [Nashville \_Housing\_DC]

Drop column Owneraddress

select \* from [Nashville \_Housing\_DC]

------ANALYSIS

Select landuse, count(landuse) Landuse\_Count from [Nashville \_Housing\_DC]

group by LandUse

Order by Landuse\_Count desc

-------How many houses were sold as vacant?

select SoldAsVacant, count(SoldAsVacant) Count\_of\_Soldasvacant from [Nashville \_Housing\_DC]

group by SoldAsVacant

Order by Count\_of\_Soldasvacant desc

------Which year has the highest sale?

select year\_of\_sale, count(uniqueid) Sales\_count from [Nashville \_Housing\_DC]

group by Year\_of\_Sale

order by Sales\_count desc

-------------Which month has the highest sale?

select Month\_of\_Sale, count(uniqueid) Sales\_count from [Nashville \_Housing\_DC]

group by Month\_of\_Sale

order by Sales\_count desc

-----------Which city has the highest sale?

select Propertycity, count(uniqueid) Sales\_count from [Nashville \_Housing\_DC]

group by PropertyCity

order by Sales\_count desc

-----------Which bedrooms have the highest sale price? and in what city?

Alter table [Nashville \_Housing\_DC]

alter column SalePrice int

------Clean Salesprice column

update [Nashville \_Housing\_DC]

set saleprice = replace (saleprice, '$', ' ')

from [Nashville \_Housing\_DC]

update [Nashville \_Housing\_DC]

set saleprice = replace (saleprice, ',', ' ')

from [Nashville \_Housing\_DC]

ALTER table [Nashville \_Housing\_DC]

add Saleprice00 nvarchar(50)

update [Nashville \_Housing\_DC]

set saleprice00 = trim(cast(saleprice as nvarchar(50)))

update [Nashville \_Housing\_DC]

set saleprice00 = cast(saleprice as int) where saleprice = '159900'

select \* from [Nashville \_Housing\_DC]