

```
/****** Script for SelectTopNRows command from SSMS *****/
```

```
SELECT TOP (1000) [UniqueID ]
    , [ParcelID]
    , [LandUse]
    , [PropertyAddress]
    , [SaleDate]
    , [SalePrice]
    , [LegalReference]
    , [SoldAsVacant]
    , [OwnerName]
    , [OwnerAddress]
    , [Acreage]
    , [TaxDistrict]
    , [LandValue]
    , [BuildingValue]
    , [TotalValue]
    , [YearBuilt]
    , [Bedrooms]
    , [FullBath]
    , [HalfBath]
FROM [Portfolio project].[dbo].[NashvilleHousing]
```

```
/*
```

```
Cleaning Data in SQL Queries
```

```
*/
```

```
Select * From [Portfolio project]..[NashvilleHousing]
```

```
----- ↗
-----
```

```
-- Standardize Date Format
```

```
Select saleDate, CONVERT(Date,SaleDate)
From [Portfolio project]..[NashvilleHousing]
```

```
Update [NashvilleHousing]
SET SaleDate = CONVERT(Date,SaleDate)
```

```
-- If it doesn't Update properly
```

```
ALTER TABLE [NashvilleHousing]
```

```
Add SaleDateConverted Date;
```

```
Update NashvilleHousing  
SET SaleDateConverted = CONVERT(Date,SaleDate)
```

```
-- Populate Property Address data
```

```
Select *  
From [Portfolio project]..[NashvilleHousing]  
--Where PropertyAddress is null  
order by ParcelID
```

```
Select a.ParcelID, a.PropertyAddress, b.ParcelID, b.PropertyAddress, ISNULL  
      (a.PropertyAddress,b.PropertyAddress)  
From [Portfolio project]..[NashvilleHousing] a  
JOIN [Portfolio project]..[NashvilleHousing] b  
      on a.ParcelID = b.ParcelID  
      AND a.[UniqueID ] <> b.[UniqueID ]  
Where a.PropertyAddress is null
```

```
Update a  
SET PropertyAddress = ISNULL(a.PropertyAddress,b.PropertyAddress)  
From [Portfolio project]..[NashvilleHousing] a  
JOIN [Portfolio project]..[NashvilleHousing] b  
      on a.ParcelID = b.ParcelID  
      AND a.[UniqueID ] <> b.[UniqueID ]  
Where a.PropertyAddress is null
```

```
-- Breaking out Address into Individual Columns (Address, City, State)
```

```
Select PropertyAddress  
From [Portfolio project]..[NashvilleHousing]  
--Where PropertyAddress is null  
--order by ParcelID
```

```
SELECT
SUBSTRING(PropertyAddress, 1, CHARINDEX(',', PropertyAddress) -1 ) as Address
, SUBSTRING(PropertyAddress, CHARINDEX(',', PropertyAddress) + 1 , LEN
(PropertyAddress)) as City
From [Portfolio project]..[NashvilleHousing]
```

```
ALTER TABLE NashvilleHousing
Add PropertySplitAddress Nvarchar(255);
```

```
Update NashvilleHousing
SET PropertySplitAddress = SUBSTRING(PropertyAddress, 1, CHARINDEX(',',
PropertyAddress) -1 )
```

```
ALTER TABLE NashvilleHousing
Add PropertySplitCity Nvarchar(255);
```

```
Update NashvilleHousing
SET PropertySplitCity = SUBSTRING(PropertyAddress, CHARINDEX(',', PropertyAddress)
+ 1 , LEN(PropertyAddress))
```

```
Select * From [Portfolio project]..[NashvilleHousing]
```

```
Select OwnerAddress
From [Portfolio project]..[NashvilleHousing]
```

```
Select
PARSENAME(REPLACE(OwnerAddress, ',', '.'), 3) address
,PARSENAME(REPLACE(OwnerAddress, ',', '.'), 2) city
,PARSENAME(REPLACE(OwnerAddress, ',', '.'), 1) state
From [Portfolio project]..[NashvilleHousing]
```

```
ALTER TABLE NashvilleHousing
Add OwnerSplitAddress Nvarchar(255);
```

```
Update NashvilleHousing
SET OwnerSplitAddress = PARSENAME(REPLACE(OwnerAddress, ',', '.'), 3)
```

```
ALTER TABLE NashvilleHousing
```

```
Add OwnerSplitCity Nvarchar(255);
```

```
Update NashvilleHousing
```

```
SET OwnerSplitCity = PARSENAME(REPLACE(OwnerAddress, ',', '.'), 2)
```

```
ALTER TABLE NashvilleHousing
```

```
Add OwnerSplitState Nvarchar(255);
```

```
Update NashvilleHousing
```

```
SET OwnerSplitState = PARSENAME(REPLACE(OwnerAddress, ',', '.'), 1)
```

```
Select *From [Portfolio project]..[NashvilleHousing]
```

```
-----
```

```
-- Change Y and N to Yes and No in "Sold as Vacant" field
```

```
Select Distinct(SoldAsVacant), Count(SoldAsVacant) total
From [Portfolio project]..[NashvilleHousing]
Group by SoldAsVacant
order by 2
```

```
Select SoldAsVacant
, CASE When SoldAsVacant = 'Y' THEN 'Yes'
      When SoldAsVacant = 'N' THEN 'No'
      ELSE SoldAsVacant
      END
From [Portfolio project]..[NashvilleHousing]
```

```
Update NashvilleHousing
```

```
SET SoldAsVacant = CASE When SoldAsVacant = 'Y' THEN 'Yes'
                        When SoldAsVacant = 'N' THEN 'No'
                        ELSE SoldAsVacant
                        END
```

----- ↗

-- Remove Duplicates

```
WITH RowNumCTE AS(
Select *,
    ROW_NUMBER() OVER (
        PARTITION BY ParcelID,
                    PropertyAddress,
                    SalePrice,
                    SaleDate,
                    LegalReference
        ORDER BY
            UniqueID
        ) row_num
From [Portfolio project]..[NashvilleHousing]
--order by ParcelID
)
Select *
From RowNumCTE
Where row_num > 1
Order by PropertyAddress
```

Select * From [Portfolio project]..[NashvilleHousing]

----- ↗

-- Delete Unused Columns

```
Select * From [Portfolio project]..[NashvilleHousing]

ALTER TABLE [Portfolio project]..[NashvilleHousing]
DROP COLUMN OwnerAddress, TaxDistrict, PropertyAddress, SaleDate
```