

```
Select *
From NashvilleHousing_Project1..NashvilleHousing

-- **
-----
-- **
-- Standarize the Date

ALTER TABLE NashvilleHousing_Project1..NashvilleHousing
Add SaleDateConverted Date;

Update NashvilleHousing_Project1..NashvilleHousing
SET SaleDateConverted = CONVERT(Date,SaleDate)

Select SaleDate, SaleDateConverted From NashvilleHousing_Project1..NashvilleHousing

--
**-----
----- **
-- Populate Property Address data

select *
from NashvilleHousing_Project1..NashvilleHousing
order by ParcelID

Select a.ParcelID, a.PropertyAddress, b.ParcelID, b.PropertyAddress, ISNULL
(a.PropertyAddress,b.PropertyAddress)
From NashvilleHousing_Project1.dbo.NashvilleHousing a
JOIN NashvilleHousing_Project1.dbo.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 NashvilleHousing_Project1.dbo.NashvilleHousing a
JOIN NashvilleHousing_Project1.dbo.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 NashvilleHousing_Project1.dbo.NashvilleHousing
```

```
Select
```

```
SUBSTRING(PropertyAddress,1,CHARINDEX(',',PropertyAddress) - 1) as Address ,  
SUBSTRING(PropertyAddress,CHARINDEX(',',PropertyAddress) +1, LEN(PropertyAddress))  
as Address
```

```
From NashvilleHousing_Project1.dbo.NashvilleHousing
```

```
ALTER TABLE NashvilleHousing_Project1..NashvilleHousing
```

```
Add PropertySplitAddress Nvarchar(255);
```

```
ALTER TABLE NashvilleHousing_Project1..NashvilleHousing
```

```
Add PropertySplitCity Nvarchar(255);
```

```
Update NashvilleHousing_Project1..NashvilleHousing
```

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

```
Update NashvilleHousing_Project1..NashvilleHousing
```

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

```
Select *
```

```
From NashvilleHousing_Project1..NashvilleHousing
```

```
Select OwnerAddress
```

```
From NashvilleHousing_Project1.dbo.NashvilleHousing
```

```
Select
```

```
PARSENAME(REPLACE(OwnerAddress,',','.') , 3)  
,PARSENAME(REPLACE(OwnerAddress, ',', '.' ) , 2)  
,PARSENAME(REPLACE(OwnerAddress, ',', '.' ) , 1)  
From NashvilleHousing_Project1.dbo.NashvilleHousing
```

```
ALTER TABLE NashvilleHousing_Project1.dbo.NashvilleHousing
```

```
Add OwnerSplitAddress Nvarchar(255);
```

```
Update NashvilleHousing_Project1.dbo.NashvilleHousing
```

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

```
ALTER TABLE NashvilleHousing_Project1.dbo.NashvilleHousing
```

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

```
Update NashvilleHousing_Project1.dbo.NashvilleHousing
```

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

```
ALTER TABLE NashvilleHousing_Project1.dbo.NashvilleHousing
Add OwnerSplitState Nvarchar(255);
```

```
Update NashvilleHousing_Project1.dbo.NashvilleHousing
SET OwnerSplitState = PARSENAME(REPLACE(OwnerAddress, ',', '.'), 1)
```

```
Select *
From NashvilleHousing_Project1.dbo.NashvilleHousing
```

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

```
Select Distinct(SoldAsVacant), Count(SoldAsVacant)
From NashvilleHousing_Project1.dbo.NashvilleHousing
Group by SoldAsVacant
order by 2
```

```
Select SoldAsVacant
, CASE When SoldAsVacant = 'Y' THEN 'Yes'
      When SoldAsVacant = 'N' THEN 'No'
      ELSE SoldAsVacant
      END
From NashvilleHousing_Project1.dbo.NashvilleHousing
```

```
Update NashvilleHousing_Project1.dbo.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 NashvilleHousing_Project1.dbo.NashvilleHousing
--order by ParcelID
)
Select *
From RowNumCTE
Where row_num > 1
Order by PropertyAddress
```

```
Select *
From NashvilleHousing_Project1.dbo.NashvilleHousing
```

```
-----
-----
```

```
-- Delete Unused Columns
```

```
Select *
From NashvilleHousing_Project1.dbo.NashvilleHousing
```

```
ALTER TABLE NashvilleHousing_Project1.dbo.NashvilleHousing
DROP COLUMN OwnerAddress, TaxDistrict, PropertyAddress, SaleDate
```