[Dataset Link](https://drive.google.com/file/d/1RonYOp_5KvveHG5CbKpixaIJF82ZaVsn/view?usp=sharing)

**FINAL PROJECT SQL– NASHVILLE HOUSING**

create database my\_new\_project;

use my\_new\_project;

show tables;

select \* from nash\_housing;

**-- PROBLEM STATEMENTS TO BE SOLVED USING WHERE CLAUSE:- --**

select OwnerName,ParcelID from nash\_housing where LandUse = 'SINGLE FAMILY';

select ParcelID from nash\_housing;

select \* from nash\_housing where SaleDate in ('April 9, 2013');

select UniqueID,ParcelID,OwnerName from nash\_housing where UniqueID in (2045,2265,2266);

select \* from nash\_housing where OwnerName like '\_\_F%';

select \* from nash\_housing where LegalReference not in ('20140331-0026323','20140904-0081015');

select ParcelID,OwnerName,SaleDate from nash\_housing where SaleDate in ('April 9, 2013','June 10, 2014');

select OwnerName,ParcelID,YearBuilt,Bedrooms from nash\_housing where YearBuilt = 1986 and Bedrooms = 3;

**-- PROBLEM STATEMENT TO BE SOLVED USING - SQL SCALAR/NUMERIC FUNCTIONS:- --**

select UniqueID,lower(OwnerName),upper(PropertyAddress),ParcelID from nash\_housing where UniqueID between 2045 and 16918;

select UniqueID,concat(left(OwnerName,4),' ',left(PropertyAddress,3)) as NameandPropertyAdd from nash\_housing;

select UniqueID,OwnerName,SalePrice,

case

when SalePrice =5000 then 'grade A'

when SalePrice between 5001 and 15000 then 'grade B'

when SalePrice between 15001 and 20000 then 'grade c'

else 'grade d'

end as 'SalePrice\_type'

from nash\_housing;

select YEAR(SaleDate) AS year from nash\_housing;

**-- PROBLEM STATEMENT TO BE SOLVED USING - BASIC SELECT STATEMENT:- --**

select UniqueID,LandUse,SaleDate from nash\_housing;

select ParcelID,concat(OwnerName,' ',PropertyAddress) as 'OWNER\_AND\_PROPERTY' from nash\_housing;

select max(distinct(SalePrice)) from nash\_housing;

select \* from nash\_housing where LegalReference not in ('20140331-0026323','20140904-0081015');

select distinct(ParcelID),(UniqueID) from nash\_housing;

select OwnerName from nash\_housing where OwnerName not like '%a%';

**-- PROBLEM TO BE SOLVED USING - GROUP BY:- --**

select TaxDistrict , sum(SalePrice) as 'totalsale' from nash\_housing group by TaxDistrict order by totalsale;

select ParcelID,sum(Acreage) as 'acr' from nash\_housing group by ParcelID order by acr;

select TaxDistrict , sum(SalePrice) as 'totalsale' from nash\_housing group by TaxDistrict order by totalsale desc limit 6;

-- PROBLEM STATEMENT TO BE SOLVED USING - GROUP BY AND HAVING CLAUSE :- --

select ParcelID,avg(SalePrice) from nash\_housing group by ParcelID;

select YearBuilt,count(\*) from nash\_housing group by YearBuilt;

select ParcelID,min(SalePrice) as 'minsp' from nash\_housing group by ParcelID having min(SalePrice)>800000;

select OwnerName,avg(SalePrice) as 'avgsp' from nash\_housing group by OwnerName;

**-- PROBLEM STATEMENT TO BE SOLVED USING - SQL SUB-QUERIES:- --**

select UniqueID,OwnerName from nash\_housing where ParcelID = (select ParcelID from nash\_housing where OwnerName='FRAZIER, CYRENTHA LYNETTE');

select OwnerName,LandUse,SalePrice from nash\_housing where SalePrice=240000 and LandUse in (select LandUse from nash\_housing where LandUse = 'SINGLE FAMILY');

select OwnerName,BuildingValue where SalePrice = (select SalePrice from nash\_housing where SalePrice>359900);

select OwnerName,SalePrice,ParcelID,PropertyAddress from nash\_housing where (PropertyAddress) in (select

PropertyAddress from nash\_housing where PropertyAddress in ('1832 FOX CHASE DR, GOODLETTSVILLE','629 GAYLEMORE DR, GOODLETTSVILLE'));

select OwnerName,LandUse,ParcelID,SalePrice from nash\_housing where (OwnerName) = (select

OwnerName from nash\_housing where OwnerName = 'FRAZIER, CYRENTHA LYNETTE');