

DL1_C4_S6_Challenge

In [1]:

```
import pandas as pd
import warnings
warnings.filterwarnings('ignore')
```

In []:

In [2]:

```
import mysql.connector as sql
```

In [3]:

```
db = sql.connect(host='localhost',user='root', password= 'password', database='house')
```

In [4]:

```
cursor = db.cursor()
```

In []:

```
#import mysql.connector as server1

#db1=server1.connect(host='127.0.0.1',user="root",password="Aishwarya$1997",database='house')
#cursor1=db1.cursor()
```

Task 1

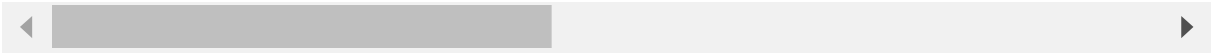
In [5]:

```
df = pd.read_csv('DS1_C4_S6_House_Prices_Data_Challenge.csv')
df
```

Out[5]:

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandConto
0	1	60	RL	65.0	8450	Pave	NaN	Reg	l
1	2	20	RL	80.0	9600	Pave	NaN	Reg	l
2	3	60	RL	68.0	11250	Pave	NaN	IR1	l
3	4	70	RL	60.0	9550	Pave	NaN	IR1	l
4	5	60	RL	84.0	14260	Pave	NaN	IR1	l
...	
1455	1456	60	RL	62.0	7917	Pave	NaN	Reg	l
1456	1457	20	RL	85.0	13175	Pave	NaN	Reg	l
1457	1458	70	RL	66.0	9042	Pave	NaN	Reg	l
1458	1459	20	RL	68.0	9717	Pave	NaN	Reg	l
1459	1460	20	RL	75.0	9937	Pave	NaN	Reg	l

1460 rows × 81 columns



In [6]:

```
for item in df.columns:  
    print(item, " ", df[item].isna().sum())
```

```
Id      0  
MSSubClass    0  
MSZoning    0  
LotFrontage  259  
LotArea      0  
Street       0  
Alley    1369  
LotShape     0  
LandContour  0  
Utilities    0  
LotConfig    0  
LandSlope    0  
Neighborhood  0  
Condition1   0  
Condition2   0  
BldgType     0  
HouseStyle   0  
OverallQual  0  
OverallCond  0  
YearBuilt    0  
YearRemodAdd 0  
RoofStyle    0  
RoofMatl     0  
Exterior1st  0  
Exterior2nd  0  
MasVnrType   8  
MasVnrArea   8  
ExterQual    0  
ExterCond    0  
Foundation   0  
BsmtQual     37  
BsmtCond     37  
BsmtExposure 38  
BsmtFinType1 37  
BsmtFinSF1    0  
BsmtFinType2 38  
BsmtFinSF2    0  
BsmtUnfSF     0  
TotalBsmtSF   0  
Heating       0  
HeatingQC     0  
CentralAir    0  
Electrical    1  
1stFlrSF     0  
2ndFlrSF     0  
LowQualFinSF  0  
GrLivArea     0  
BsmtFullBath  0  
BsmtHalfBath  0  
FullBath      0  
HalfBath      0  
BedroomAbvGr  0  
KitchenAbvGr  0  
KitchenQual   0  
TotRmsAbvGrd  0
```

```
Functional    0
Fireplaces    0
FireplaceQu   690
GarageType    81
GarageYrBlt   81
GarageFinish  81
GarageCars    0
GarageArea    0
GarageQual    81
GarageCond    81
PavedDrive    0
WoodDeckSF    0
OpenPorchSF   0
EnclosedPorch 0
3SsnPorch     0
ScreenPorch   0
PoolArea      0
PoolQC        1453
Fence         1179
MiscFeature    1406
MiscVal        0
MoSold        0
YrSold        0
SaleType       0
SaleCondition  0
SalePrice     0
```

In [7]:

```
from sqlalchemy import create_engine
```

In [8]:

```
pip install pymysql
```

Requirement already satisfied: pymysql in c:\users\akshay\anaconda3\lib\site-packages (1.0.2)

Note: you may need to restart the kernel to use updated packages.

In [9]:

```
engine = create_engine("mysql+pymysql://{user}:{password}@{host}/{database}".format(host='1
```

In [11]:

```
grand=df[(df.LotConfig=="Corner")&(df.LotArea>6000)]
grand.to_sql( name='task1',con=engine,if_exists='append',index=False)
```

Out[11]:

238

Task 2

In [13]:

```
data=df[(df.BldgType=="1Fam")&(df.HouseStyle=="1Story")&(df.LandContour=="Lv1")]  
data.to_sql( name='task2',con=engine,if_exists='append',index=False)
```

Out[13]:

545

Task 3

In [14]:

```
data3=df[(df.BldgType=="TwnhsE")|(df.BldgType=="Twnhs")]  
data3.to_sql( name='task3',con=engine,if_exists='append',index=False)
```

Out[14]:

157

Task 4

In [16]:

```
data4=df[(df.BsmtQual!="NaN")&(df.Exterior1st=="CemntBd")&(df.TotRmsAbvGrd>3)]  
data4.to_sql( name='task4',con=engine,if_exists='append',index=False)
```

Out[16]:

55

Task 5

In [17]:

```
data5=df[df.GarageArea>500]  
data5.to_sql( name='task5',con=engine,if_exists='append',index=False)
```

Out[17]:

629

In [25]:

```
dis="""select table_name from information_schema.tables where table_type='BASE TABLE'"""
cursor.execute(dis)
tables=cursor.fetchall()
tables[-5:]
```

Out[25]:

```
[('task1',), ('task2',), ('task3',), ('task4',), ('task5',)]
```