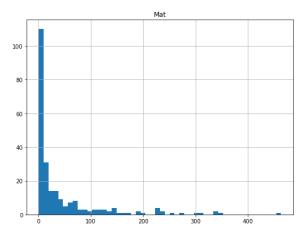
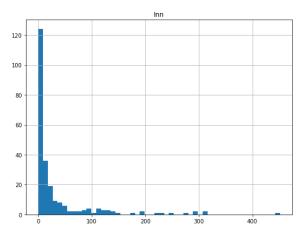
```
In [1]:
           import pandas as pd
           import numpy as np
           import matplotlib.pyplot as plt
           import seaborn as sns
           import os
           %matplotlib inline
In [2]:
           df1 = pd.read csv('AllOdiPlayers.csv')
           df2 = pd.read_csv('AllOdicaptains.csv')
           df3 = pd.read_csv('AllTestcaptains.csv')
           df4 = pd.read_csv('AllTestplayers.csv')
In [3]:
           df1.head(10)
Out[3]:
             No
                            Name
                                    First
                                          Last Mat
                                                      Inn
                                                           NO
                                                                Runs
                                                                        HS
                                                                                    Balls
                                                                                         Mdn
                                                                                                Runs.1 Wkt
                                                                                                              BB
                                                                              Avg
                                                                                                                2
          0
                      Syed Abid Ali
                                                   5
                                                        3
                                                             0
                                                                             31.00
                                                                                                           7
               1
                                   1974
                                          1975
                                                                   93
                                                                         70
                                                                                     336
                                                                                            10
                                                                                                   187
                                                                                                                F€
                                                                                                               Fe
                                                                                                           7
          1
               2
                  Bishan Singh Bedi 1974
                                          1979
                                                  10
                                                        7
                                                             2
                                                                  31
                                                                        13
                                                                              6.20
                                                                                     590
                                                                                            17
                                                                                                   340
          2
               3
                                                   5
                                                                             38.00
                                                                                       0
                                                                                             0
                                                                                                     0
                                                                                                           0
                   Farokh Engineer 1974
                                          1975
                                                        4
                                                                 114
                                                                        54*
                                                                                                                1
          3
                                                                                                           1
              4
                     Sunil Gavaskar
                                   1974
                                          1987
                                                108
                                                      102
                                                            14
                                                                3092
                                                                       103*
                                                                             35.13
                                                                                      20
                                                                                             0
                                                                                                    25
                                                                                                                Jį
                                                                                                                2
               5
                        Madan Lal
                                   1974
                                          1987
                                                       35
                                                            14
                                                                 401
                                                                        53*
                                                                             19.09
                                                                                    3164
                                                                                                  2137
                                                                                                          73
          4
                                                  67
                                                                                            44
          5
               6
                       Sudhir Naik
                                                   2
                                                        2
                                                             0
                                                                  38
                                                                             19.00
                                                                                       0
                                                                                                     0
                                                                                                           0
                                   1974 1974
                                                                         20
                                                                                             0
          6
              7
                       Brijesh Patel
                                   1974 1979
                                                  10
                                                        9
                                                             1
                                                                 243
                                                                         82
                                                                             30.37
                                                                                       0
                                                                                             0
                                                                                                     0
                                                                                                           0
                                                                                                               Fe
          7
               8
                      Eknath Solkar
                                   1974
                                          1976
                                                   7
                                                        6
                                                             0
                                                                  27
                                                                         13
                                                                              4.50
                                                                                     252
                                                                                             4
                                                                                                   169
                                                                                                           4
                  Srinivasaraghavan
                                                                                                               Fe
          8
                                    1974
                                          1983
                                                  15
                                                        9
                                                                   54
                                                                        26*
                                                                             10.80
                                                                                     868
                                                                                             7
                                                                                                   542
                                                                                                            5
                  Venkataraghavan
                        Gundappa
                                    1974 1982
                                                                                                           0
          9
              10
                                                  25
                                                       23
                                                                 439
                                                                         75
                                                                            19.95
                                                                                       0
                                                                                             0
                                                                                                     0
                         Viswanath
In [4]:
           df1.tail(5)
Out[4]:
                No
                         Name
                                                        NO Runs
                                                                   HS
                                                                              Balls
                                                                                    Mdn
                                                                                          Runs.1
                                                                                                   Wkt BBM
                                 First
                                       Last Mat
                                                   Inn
                                                                        Avg
                         Rahul
                                                                                                         Mar-
                                                                                       0
          236 237
                                2021
                                                                                                      3
                                      2021
                                                          0
                                                               13
                                                                    13
                                                                        13.0
                                                                                60
                                                                                               54
                        Chahar
                                                                                                           54
                     Krishnappa
                                                                                                          Jan-
          237
               238
                                2021
                                      2021
                                                                2
                                                                     2
                                                                         2.0
                                                                                48
                                                                                       0
                                                                                               49
                      Gowtham
                                                                                                           49
                         Nitish
                                                                                       0
                                2021
                                                          0
                                                                7
                                                                     7
                                                                         7.0
                                                                                18
                                                                                               10
                                                                                                      0
                                                                                                            0
          238 239
                                      2021
                                                     1
                          Rana
```

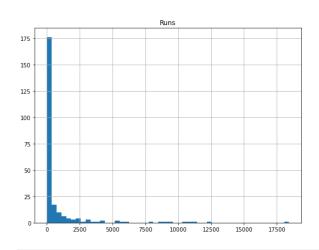
```
Avg Balls
               No
                                                                               Mdn Runs.1
                                                                                             Wkt BBM Av
                       Name
                              First
                                    Last Mat Inn
                                                    NO Runs
                                                               HS
                       Chetan
                                                                                                   Feb-
         239 240
                              2021 2021
                                                  1
                                                      0
                                                             0
                                                                0*
                                                                     0.0
                                                                           48
                                                                                  0
                                                                                         34
                                                                                                2
                      Sakariya
                                                                                                     34
                        Sanju
                              2021 2021
                                                                                                0
                                                                                                      0
         240 241
                                                            46
                                                                46
                                                                    46.0
                                                                            0
                                                                                  0
                                                                                          0
                      Samson
In [5]:
          df1.columns
Out[5]: Index(['No', 'Name', 'First', 'Last', 'Mat', 'Inn', 'NO', 'Runs', 'HS', 'Avg',
                 'Balls', 'Mdn', 'Runs.1', 'Wkt', 'BBM', 'Avg.1', 'Ca', 'St'],
                dtype='object')
In [6]:
          df1 =df1.drop('BBM', axis =1)
In [7]:
          df1 = df1.drop('Mdn', axis = 1)
          df1 = df1.drop('Runs.1', axis = 1)
          df1 = df1.drop('Wkt', axis = 1)
          df1 = df1.drop('Avg.1', axis = 1)
          df1 = df1.drop('Ca', axis = 1)
          df1 = df1.drop('St', axis = 1)
          df1 = df1.drop('Balls', axis = 1)
          df1 = df1.drop('NO', axis = 1)
          df1 = df1.drop('No', axis = 1)
          df1 = df1.drop('First', axis = 1)
          df1 = df1.drop('Last', axis = 1)
In [8]:
          df1
Out[8]:
                           Name
                                  Mat
                                       Inn Runs
                                                    HS
                                                         Avg
           0
                     Syed Abid Ali
                                         3
                                                        31.00
                                    5
                                              93
                                                    70
           1
                 Bishan Singh Bedi
                                         7
                                   10
                                              31
                                                    13
                                                         6.20
           2
                   Farokh Engineer
                                    5
                                         4
                                              114
                                                    54*
                                                        38.00
           3
                    Sunil Gavaskar
                                   108
                                       102
                                             3092
                                                  103*
                                                        35.13
           4
                        Madan Lal
                                   67
                                        35
                                              401
                                                    53*
                                                        19.09
                                                     ...
         236
                     Rahul Chahar
                                              13
                                                        13.00
                                          1
                                                    13
         237
              Krishnappa Gowtham
                                                2
                                                     2
                                                         2.00
         238
                       Nitish Rana
                                          1
                                                7
                                                     7
                                                         7.00
         239
                   Chetan Sakariya
                                          1
                                               0
                                                    0*
                                                         0.00
         240
                                              46
                                                        46.00
                    Sanju Samson
                                                    46
```

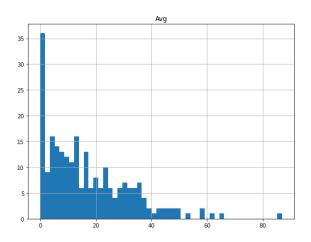
```
In [9]:
    df1.hist(bins=50,figsize =(20,15))
    plt.show
```

```
Out[9]: <function matplotlib.pyplot.show(close=None, block=None)>
```









```
In [10]: df1.isna().sum()
```

Out[10]: Name 0
Mat 0
Inn 0
Runs 0
HS 0
Avg 0
dtype: int64

In [11]: df1 = df1.drop('Name', axis = 1)

In [12]: df1 = df1.drop('HS', axis = 1)

In [13]:
 from sklearn import datasets, linear_model, metrics
 X = df1
 y = df1.Runs

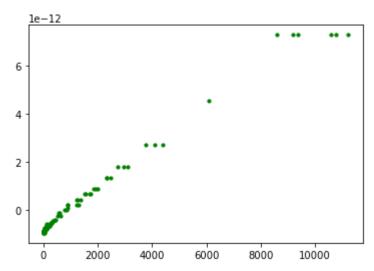
In [14]: from sklearn.model_selection import train_test_split

```
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.4,random_state=1)
```

```
In [15]:
    from sklearn.linear_model import LinearRegression
    lin_regx = LinearRegression()
    lin_regx.fit(X_train, y_train)
```

Out[15]: LinearRegression()

Out[16]: <matplotlib.collections.PathCollection at 0x228e77c1d90>



In []: