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Run Code

```
np.power(arr4, 3)
```

Out[25]:
```
array([[  1,   8,  27],
       [ 64, 125, 216]], dtype=int32)
```

In [26]:
```
# Adding a scalar to each element of the array

np.add(arr4, 5)
```

Out[26]:
```
array([[ 6,  7,  8],
       [ 9, 10, 11]])
```

Array Slicing

In [ ]:

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Run Code

In [26]:
```
# Adding a scalar to each element of the array

np.add(arr4, 5)
```

Out[26]:
```
array([[ 6,  7,  8],
       [ 9, 10, 11]])
```

Array Slicing

In [1]:
```
arr1 = np.array([4,7,3,9,5])
arr1
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-1-c31e26a24e1c> in <module>
----> 1 arr1 = np.array([4,7,3,9,5])
      2 arr1

NameError: name 'np' is not defined
```

In [ ]:

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Run Code

In [26]:
```
# Adding a scalar to each element of the array

np.add(arr4, 5)
```

Out[26]:
```
array([[ 6,  7,  8],
       [ 9, 10, 11]])
```

Array Slicing

In [2]:
```
import numpy as np
```

In [3]:
```
arr1 = np.array([4,7,3,9,5])
arr1
```

Out[3]:
```
array([4, 7, 3, 9, 5])
```

In [ ]:

SHARAD KUMAR DIKOLIA

BITS Pilani

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Run Code

In [4]:
```
# Slice complete array
arr1[:]
```

Out[4]:
```
array([4, 7, 3, 9, 5])
```

In [ ]:
```
arr1[:2]
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

In [6]:
```
# Omitting ending number defaults to end of the list
arr1[3:]
```

Out[6]:
```
array([9, 5])
```

In [7]:
```
#Slicing with a step value
arr1[::2]
```

Out[7]:
```
array([4, 3, 5])
```

In [ ]:
```
arr2 = np.arange(1,50,2).reshape(5,5)
arr1
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

NEDN

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Run Code

```
arr2
```

Out[8]:
```
array([[ 1,  3,  5,  7,  9],
       [11, 13, 15, 17, 19],
       [21, 23, 25, 27, 29],
       [31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

```
       [11, 13, 15, 17, 19],
       [21, 23, 25, 27, 29],
       [31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

```
#       0   1   2   3   4
#   0   [ 1,  3,  5,  7,  9],  -5
    1   [11, 13, 15, 17, 19],  -4
    2   [21, 23, 25, 27, 29],  -3
    3   [31, 33, 35, 37, 39],  -2
    4   [41, 43, 45, 47, 49]]  -1

#      -5   -4  -3  -2  -1
```

In [ ]:
```
#Acc
```

In [ ]:

In [ ]:

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Run Code

```
       [11, 13, 15, 17, 19],
       [21, 23, 25, 27, 29],
       [31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

```
#        0   1   2   3   4
#   0   [ 1,  3,  5,  7,  9],  -5
    1   [11, 13, 15, 17, 19],  -4
    2   [21, 23, 25, 27, 29],  -3
    3   [31, 33, 35, 37, 39],  -2
    4   [41, 43, 45, 47, 49]]  -1

#      -5   -4  -3  -2  -1
```

In [10]:
```
#Accessing individual elements
print(arr2[3][2])
print(arr[3,2])
```

```
35

---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-10-7cac7047b7f8> in <module>
      1 #Accessing individual elements
```

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Run Raw NBConvert

```
#        0   1   2   3   4
#   0   [ 1,  3,  5,  7,  9],  -5
    1   [11, 13, 15, 17, 19],  -4
    2   [21, 23, 25, 27, 29],  -3
    3   [31, 33, 35, 37, 39],  -2
    4   [41, 43, 45, 47, 49]]  -1

#      -5   -4  -3  -2  -1
```

In [11]:
```
#Accessing individual elements
print(arr2[3][2])
print(arr2[3,2])
```

```
35
35
```

In [12]:
```
print(arr2[-2][-4])
```

```
33
```

In [ ]:

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Run Code

In [14]:
```
#Slicing all rows and all columns
arr2[:,:]
```

Out[14]:
```
array([[ 1,  3,  5,  7,  9],
       [11, 13, 15, 17, 19],
       [21, 23, 25, 27, 29],
       [31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [15]:
```
# All rows, columns 0 and 1
arr2[:, :2]
```

Out[15]:
```
array([[ 1,  3],
       [11, 13],
       [21, 23],
       [31, 33],
       [41, 43]])
```

In [16]:
```
# All rows, columns at index 2 and 3
x = arr2[:, 2:4]

x
```

SABITA SAHU

BITS Pilani

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In [16]:
```
# All rows, columns at index 2 and 3
x = arr2[:, 2:4]

x
```

Out[16]:
```
array([[ 5,  7],
       [15, 17],
       [25, 27],
       [35, 37],
       [45, 47]])
```

In [17]:
```
print(x.shape)
print
```

```
(5, 2)
```

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

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Run Code

In [16]:
```
# All rows, columns at index 2 and 3
x = arr2[:, 2:4]

x
```

Out[16]:
```
array([[ 5,  7],
       [15, 17],
       [25, 27],
       [35, 37],
       [45, 47]])
```

In [18]:
```
print(x.shape)
print(x.ndim)
print
```

```
(5, 2)
2
```

In [ ]:

In [ ]:

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Run Code

```
[45, 47]])
```

In [19]:
```
print(x.shape)
print(x.ndim)
print(type(x))
```

```
(5, 2)
2
<class 'numpy.ndarray'>
```

In [ ]:

In [ ]:

In [ ]:

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Run Code

In [20]:
```
arr2
```

Out[20]:
```
array([[ 1,  3,  5,  7,  9],
       [11, 13, 15, 17, 19],
       [21, 23, 25, 27, 29],
       [31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [ ]:
```
# Range
arr2[3:5, :]
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

HIMANSHU KUMAR SRIVASTAVA

BITS Pilani

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Run Code

In [20]:
```
arr2
```

Out[20]:
```
array([[ 1,  3,  5,  7,  9],
       [11, 13, 15, 17, 19],
       [21, 23, 25, 27, 29],
       [31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [21]:
```
# Rows 3 and 4, but all columns
arr2[3:5, :]
```

Out[21]:
```
array([[31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

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Run Code

```
       [21, 23, 25, 27, 29],
       [31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [21]:
```
# Rows 3 and 4, but all columns
arr2[3:5, :]
```

Out[21]:
```
array([[31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [22]:
```
x = arr2[2]

print(x)
```

```
[21 23 25 27 29]
```

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

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Run Code

Out[20]:
```
array([[ 1,  3,  5,  7,  9],
       [11, 13, 15, 17, 19],
       [21, 23, 25, 27, 29],
       [31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [21]:
```
# Rows 3 and 4, but all columns
arr2[3:5, :]
```

Out[21]:
```
array([[31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [25]:
```
x = arr2[2]

print(x)
print(x.shape)
print(x.ndim)
print(type(x))
```

```
[21 23 25 27 29]
(5,)
1
<class 'numpy.ndarray'>
```

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Run Code

In [21]:
```
# Rows 3 and 4, but all columns
arr2[3:5, :]
```

Out[21]:
```
array([[31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [25]:
```
x = arr2[2]

print(x)
print(x.shape)
print(x.ndim)
print(type(x))
```

```
[21 23 25 27 29]
(5,)
1
<class 'numpy.ndarray'>
```

In [ ]:
```
y
```

In [ ]:

In [ ]:

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Run Code

Out[21]:
```
array([[31, 33, 35, 37, 39],
       [41, 43, 45, 47, 49]])
```

In [25]:
```
x = arr2[2]

print(x)
print(x.shape)
print(x.ndim)
print(type(x))
```

```
[21 23 25 27 29]
(5,)
1
<class 'numpy.ndarray'>
```

In [ ]:
```
y
```

In [ ]:

In [ ]:

In [ ]:

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Run Code

```
print(x.shape)
print(x.ndim)
print(type(x))
```

```
[21 23 25 27 29]
(5,)
1
<class 'numpy.ndarray'>
```

In [29]:
```
y = arr2[:, 3]

print(y)
print(y.shape)
print(y.ndim)
print(type(y))
```

```
[ 7 17 27 37 47]
(5,)
1
<class 'numpy.ndarray'>
```

In [ ]:

In [ ]:

PRASHANT LAKHANPAL

BITS Pilani

jupyter NumPy Computations Last Checkpoint: 16 minutes ago (unsaved changes)

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Run Code

In [41]:
```
c = arr2[1:4, 2:3]
c
```

Out[41]:
```
array([[15],
       [25],
       [35]])
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

jupyter NumPy Computations Last Checkpoint: 16 minutes ago (unsaved changes)

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Run Code

In [41]:
```
c = arr2[1:4, 2:3]
c
```

Out[41]:
```
array([[15],
       [25],
       [35]])
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

jupyter NumPy Computations Last Checkpoint: 16 minutes ago (unsaved changes)

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Run Code

In [41]:
```
c = arr2[1:4, 2:3]
c
```

Out[41]:
```
array([[15],
       [25],
       [35]])
```

Slice of numpy array points to the same array

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

SANTANU GHOSH

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Run Code

```
[35]])
```

Slice of numpy array points to the same array

```
In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:
```

VISHAL GUPTA
How we can do diagonal slicing?
Impartus

BITS Pilani

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Run Code

```
print(id(a))
print(id(b))
```

```
[1, 2, 3, 4, 5]
[2, 3, 4]
2315557932552
2315557932680
```

In [ ]:
```
b[1] = 786
```

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

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Run Code

In [45]:
```
sub_arr1 = arr1[:3]

sub_arr1
```

Out[45]:
```
array([4, 7, 3])
```

In [46]:
```
sub_arr1[1] = 786
```

In [47]:
```
print(sub_arr1)
print(arr1)
```

```
[  4 786   3]
[  4 786   3   9   5]
```

In [ ]:

In [ ]:

In [ ]:

VISHAL GUPTA
Thanks Prateek, i will have a look after the class.
Impartus

BITS Pilani

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Run Code

In [47]:
```
print(sub_arr1)
print(arr1)
```

```
[  4 786   3]
[  4 786   3   9   5]
```

In [48]:
```
# set all the elements of sub array to 1234
sub_arr1[:] = 1234

sub_arr1
```

Out[48]:
```
array([1234, 1234, 1234])
```

In [49]:
```
arr1
```

Out[49]:
```
array([1234, 1234, 1234,    9,    5])
```

In [ ]:

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Run Code

In [51]:
```
arr2 = arr1.copy()
arr2
```

Out[51]:
```
array([4, 7, 3, 9, 5])
```

Computations and Comparisons

In [52]:
```
arr5 = np.random.randint(2,10, size=(2,3))
arr5
```

Out[52]:
```
array([[5, 6, 8],
       [9, 7, 8]])
```

In [ ]:
```
arr5 = np.random.randint(2,10, size=(2,3))
arr5
```

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

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Run Code

In [52]:
```
arr5 = np.random.randint(2,10, size=(2,3))
arr5
```

Out[52]:
```
array([[5, 6, 8],
       [9, 7, 8]])
```

In [53]:
```
arr6 = np.random.randint(2,10, size=(2,3))
arr6
```

Out[53]:
```
array([[3, 9, 3],
       [7, 3, 6]])
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

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File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [54]:
```
arr5 > arr5
```

Out[54]:
```
array([[False, False, False],
       [False, False, False]])
```

In [55]:
```
arr5 == arr6
```

Out[55]:
```
array([[False, False, False],
       [False, False, False]])
```

In [ ]:

In [ ]:

In [ ]:

RASHMI AGRAWAL

BITS Pilani

jupyter NumPy Computations Last Checkpoint: 25 minutes ago (unsaved changes)

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Run Code

In [56]:
```
arr5 > arr6
```

Out[56]:
```
array([[ True, False,  True],
       [ True,  True,  True]])
```

In [55]:
```
arr5 == arr6
```

Out[55]:
```
array([[False, False, False],
       [False, False, False]])
```

In [ ]:

In [ ]:

In [ ]:

PRASHANT LAKHANPAL

BITS Pilani

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Run Code

```
In [56]: arr5 > arr6

Out[56]: array([[ True, False,  True],
                [ True,  True,  True]])

In [55]: arr5 == arr6

Out[55]: array([[False, False, False],
                [False, False, False]])

In [57]: np.any(arr5 > arr6)

Out[57]: True

In [58]: np.all(arr5 > arr6)

Out[58]: False

In [ ]:
```

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Run Code

Out[59]: True

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

RAHUL GUPTA

BITS Pilani

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Run Code

Out[59]: True

In [60]:
```
np.equal(arr5, 5)
```

Out[60]:
```
array([[ True, False, False],
       [False, False, False]])
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

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Run Code

```
In [61]: np.greater(arr6, 5)

Out[61]: array([[False,  True, False],
                [ True, False,  True]])

In [62]: np.greater_equal(arr5, 9)

Out[62]: array([[False, False, False],
                [ True, False, False]])

In [ ]:

In [ ]:

In [ ]:
```

BITS Pilani

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Run Code

```
In [65]: np.sum(arr1)
Out[65]: 28

In [66]: arr1.min()
Out[66]: 3

In [ ]:

In [ ]:

In [ ]:

In [ ]:
```

RAHUL GUPTA

BITS Pilani

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Run Code

```
In [69]: arr1.var()
Out[69]: 4.64

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:
```

BITS Pilani

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Run Code

In [69]:
```
arr1.var()
```

Out[69]:
```
4.64
```

In [70]:
```
# axis-0 - along the rows
# axis-1 - along the columns

arr5
```

Out[70]:
```
array([[5, 6, 8],
       [9, 7, 8]])
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

RAHUL JAIN
how can we get to know that what all functions are available in the library ?
Imports

BITS Pilani

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Run Code

In [69]:
```
arr1.var()
```

Out[69]:
```
4.64
```

In [70]:
```
# axis-0 - along the rows
# axis-1 - along the columns

arr5
```

Out[70]:
```
array([[5, 6, 8],
       [9, 7, 8]])
```

In [71]:
```
np.sum(arr5, axis=0)
```

Out[71]:
```
array([14, 13, 16])
```

In [ ]:

In [ ]:

In [ ]:

jupyter NumPy Computations Last Checkpoint: 32 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [69]:
```
arr1.var()
```
Out[69]:
```
4.64
```

In [70]:
```
# axis-0 - along the rows
# axis-1 - along the columns

arr5
```
Out[70]:
```
array([[5, 6, 8],
       [9, 7, 8]])
```

In [71]:
```
np.sum(arr5, axis=0)
```
Out[71]:
```
array([14, 13, 16])
```

In [72]:
```
np.sum(arr5, axis=1)
```
Out[72]:
```
array([19, 24])
```

In [ ]:

RAHUL JAIN
so once the library is imported...need to use dir() ?

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Run Code

```
# axis-1 - along the columns

arr5
```

Out[70]:
```
array([[5, 6, 8],
       [9, 7, 8]])
```

In [71]:
```
np.sum(arr5, axis=0)
```

Out[71]:
```
array([14, 13, 16])
```

In [72]:
```
np.sum(arr5, axis=1)
```

Out[72]:
```
array([19, 24])
```

In [73]:
```
np.min(arr5, axis=0)
```

Out[73]:
```
array([5, 6, 8])
```

In [ ]:

In [ ]:

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Run Code

```
In [73]: np.min(arr5, axis=0)
Out[73]: array([5, 6, 8])

In [74]: np.min(arr5, axis=1)
Out[74]: array([5, 7])

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:
```

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Run Code

```
In [74]: np.min(arr5, axis=1)
Out[74]: array([5, 7])

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:
```

YOGESH KUMAR SHARMA

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Run Code

In [74]:
```
np.min(arr5, axis=1)
```

Out[74]:
```
array([5, 7])
```

Boolean Indexing

In [ ]:

In [ ]:

In [ ]:

In [ ]:

RISHABH BANDI

Sir - what is the limitation of np.array in terms of rows and columns

Impartus

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Run Code

In [75]:
```
names = np.array(['Leo', 'Ali', 'Fox', 'Leo', 'Fox', 'Ali', 'Max'])
names
```

Out[75]:
```
array(['Leo', 'Ali', 'Fox', 'Leo', 'Fox', 'Ali', 'Max'], dtype='<U3')
```

In [76]:
```
# Create an numpy array of 7 rows and 4 columns
data = np.random.randint(-20, 20, 28).reshape(7,4)

data
```

Out[76]:
```
array([[-19,  17,  -9,   0],
       [  7,   3,   8,   8],
       [  2,   0, -20,   0],
       [-14,  11,   2,  -3],
       [ 10, -18,  -9,  -5],
       [  3,   2,   9, -13],
       [  3,   2, -16, -11]])
```

In [ ]:

In [ ]:

In [ ]:

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Run Code

Out[78]:
```
array([[-19,  17,  -9,   0],
       [-14,  11,   2,  -3]])
```

In [79]:
```
# Select columns at index 1 and 2
data[names == 'Leo', 1:3]
```

Out[79]:
```
array([[17, -9],
       [11,  2]])
```

In [80]:
```
# Select only column 4
data[names == 'Leo', 3]
```

Out[80]:
```
array([ 0, -3])
```

In [ ]:

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Run Code

In [82]:
```
data[names != 'Leo']
```

Out[82]:
```
array([[  7,   3,   8,   8],
       [  2,   0, -20,   0],
       [ 10, -18,  -9,  -5],
       [  3,   2,   9, -13],
       [  3,   2, -16, -11]])
```

In [83]:
```
data[~(name == 'Leo')]
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-83-691ba5c228b4> in <module>
----> 1 data[~(name == 'Leo')]

NameError: name 'name' is not defined
```

In [ ]:

In [ ]:

In [ ]:

MOHAN CHELLURI

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Run Code

In [82]:
```
data[names != 'Leo']
```

Out[82]:
```
array([[  7,   3,   8,   8],
       [  2,   0, -20,   0],
       [ 10, -18,  -9,  -5],
       [  3,   2,   9, -13],
       [  3,   2, -16, -11]])
```

In [84]:
```
data[~(names == 'Leo')]
```

Out[84]:
```
array([[  7,   3,   8,   8],
       [  2,   0, -20,   0],
       [ 10, -18,  -9,  -5],
       [  3,   2,   9, -13],
       [  3,   2, -16, -11]])
```

In [ ]:

In [ ]:

In [ ]:

AYUSH MALVIYA

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Run Code

```
In [84]: data[~(names == 'Leo')]

Out[84]: array([[  7,   3,   8,   8],
                [  2,   0, -20,   0],
                [ 10, -18,  -9,  -5],
                [  3,   2,   9, -13],
                [  3,   2, -16, -11]])

In [86]: onlyLeo = names == 'Leo'

In [87]: data[onlyLeo]

Out[87]: array([[-19,  17,  -9,   0],
                [-14,  11,   2,  -3]])

In [ ]: da
```

MEENA VINAYKUMAR

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Run Code

```
[ 3,  2, -16, -11]])
```

In [ ]: leo

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

```
[ 3,  2, -16, -11]])
```

In [89]:
```
leo_or_fox = (names == 'Leo') | (names == 'Fox')
```

In [ ]:
```
data[]
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

RAMPRASAD

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Run Code

In [90]:
```
data[leo_or_fox]
```

Out[90]:
```
array([[-19,  17,  -9,   0],
       [  2,   0, -20,   0],
       [-14,  11,   2,  -3],
       [ 10, -18,  -9,  -5]])
```

In [91]:
```
# Assign a value to all those elements that are not 'Ali'

data[names != 'Ali'] = 5

data
```

Out[91]:
```
array([[  5,   5,   5,   5],
       [  7,   3,   8,   8],
       [  5,   5,   5,   5],
       [  5,   5,   5,   5],
       [  5,   5,   5,   5],
       [  3,   2,   9, -13],
       [  5,   5,   5,   5]])
```

In [ ]:

RAHUL JAIN

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Run Code

```
data
```

Out[91]:
```
array([[  5,   5,   5,   5],
       [  7,   3,   8,   8],
       [  5,   5,   5,   5],
       [  5,   5,   5,   5],
       [  5,   5,   5,   5],
       [  3,   2,   9, -13],
       [  5,   5,   5,   5]])
```

In [ ]:

In [ ]:

In [ ]:

PRASHANT LAKHANPAL

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Run Code

Getting Started with Pandas

In [1]:
```
import numpy as np
import pandas as pd
```

pandas Series

In [ ]:

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Run Code

pandas Series

In [2]:
```
s1 = pd.Series([2,5,-8,6])
s1
```

Out[2]:
```
0    2
1    5
2   -8
3    6
dtype: int64
```

In [3]:
```
# values attribute
s1.values
```

Out[3]:
```
array([ 2,  5, -8,  6], dtype=int64)
```

In [ ]:

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```
d    2
dtype: int64
```

In [11]:
```
s2
```

Out[11]:
```
d    2
b    5
a   -8
c    6
dtype: int64
```

In [ ]:
```
# Modifying elements
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

```
s2
```

Out[12]:
```
d    45
b     5
a    -8
c     6
dtype: int64
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

RAHUL JAIN
Hexes the cheet sheet if anyone is interested

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Run Code

In [14]:
```
s2 > 5
```

Out[14]:
```
d     True
b    False
a    False
c     True
dtype: bool
```

In [ ]:
```
# Create a Series object from an exsiting Series

s3 =
```

In [ ]:

In [ ]:

In [ ]:

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Run Code

Out[23]:
```
India        1251.0
USA        164800.0
Iran            NaN
Germany     67051.0
France          NaN
dtype: float64
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

Out[23]:
```
India        1251.0
USA        164800.0
Iran            NaN
Germany     67051.0
France          NaN
dtype: float64
```

In [24]:
```
pd.isnull(s5)
```

Out[24]:
```
India      False
USA        False
Iran        True
Germany    False
France      True
dtype: bool
```

In [ ]:

In [ ]:

In [ ]:

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Run Code

Out[29]:
```
USA        164800
India        1251
UK          22141
Italy      101739
China       81518
Spain       94417
Germany     67051
dtype: int64
```

In [30]:
```
s4.name = 'Corona Cases'
s4.index.name = 'Country'
s4
```

Out[30]:
```
Country
USA        164800
India        1251
UK          22141
Italy      101739
China       81518
Spain       94417
Germany     67051
Name: Corona Cases, dtype: int64
```

In [ ]:

ARCHITHAA S RAO
Sir won't we lose data when we do s4 = s3?

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Run Code

DataFrame

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Trusted | Python 3

Run Code

```
data
```

Out[35]:
```
array([[100,  92,  83],
       [ 94,  85,  96]])
```

In [36]:
```
print(type(data))
```

```
<class 'numpy.ndarray'>
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Trusted | Python 3

Run Code

0	Rama	20
1	Lalitha	21
2	Peter	19
3	Shabana	18

In [ ]:
```
# Creating a DataFrame using nested dictionary

employees = {101 : {'name':'Amar', 'age':'27', 'sex':'Male'},
             201 : {'name':'Malathi', 'age':'22', 'sex':'Female'},
             301 : {'name':'Amar', 'age':'27', 'sex':'Male'}
             }
```

In [ ]:

In [ ]:

In [ ]:

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Run Code

0	Rama	20
1	Lalitha	21
2	Peter	19
3	Shabana	18

In [40]:
```
# Creating a DataFrame using nested dictionary

employees = {101 : {'name':'Amar', 'age':'27', 'sex':'Male'},
             201 : {'name':'Malathi', 'age':'22', 'sex':'Female'},
             301 : {'name':'James', 'age':'37', 'sex':'Male'}}

employees
```

Out[40]:
```
{101: {'name': 'Amar', 'age': '27', 'sex': 'Male'},
 201: {'name': 'Malathi', 'age': '22', 'sex': 'Female'},
 301: {'name': 'James', 'age': '37', 'sex': 'Male'}}
```

In [ ]:

In [ ]:

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Run Code

```
employees = {101 : {'name':'Amar', 'age':'27', 'sex':'Male'},
             201 : {'name':'Malathi', 'age':'22', 'sex':'Female'},
             301 : {'name':'James', 'age':'37', 'sex':'Male'}}

employees
```

Out[40]:

```
{101: {'name': 'Amar', 'age': '27', 'sex': 'Male'},
 201: {'name': 'Malathi', 'age': '22', 'sex': 'Female'},
 301: {'name': 'James', 'age': '37', 'sex': 'Male'}}
```

In [ ]:

In [ ]:

In [ ]:

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Run Code

In [41]:
```
df5 = pd.DataFrame(employees)

df5
```

Out[41]:

	101	201	301
name	Amar	Malathi	James
age	27	22	37
sex	Male	Female	Male

In [ ]:

In [ ]:

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Run Code

In [41]:
```
df5 = pd.DataFrame(employees)

df5
```

Out[41]:

	101	201	301
name	Amar	Malathi	James
age	27	22	37
sex	Male	Female	Male

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

sex Male Female Male

```
In [ ]: data = {'state':['Bihar','Bihar','Bihar', 'Gujarat', 'Gujarat', 'Gujarat'],
        'year' : [2001, 2011, 2018, 2001, 2011, 2018],
        }
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

SUMIT SONI

BITS Pilani

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Run Code

sex	Male	Female	Male

In [42]:
```
data = {'state':['Bihar','Bihar','Bihar', 'Gujarat', 'Gujarat', 'Gujarat'],
        'year' : [2001, 2011, 2018, 2001, 2011, 2018],
        'pop' : [8.3, 10.4, 11.9, 5.0, 6.1, 6.4]}

data
```

Out[42]:
```
{'state': ['Bihar', 'Bihar', 'Bihar', 'Gujarat', 'Gujarat', 'Gujarat'],
 'year': [2001, 2011, 2018, 2001, 2011, 2018],
 'pop': [8.3, 10.4, 11.9, 5.0, 6.1, 6.4]}
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

sex	Male	Female	Male

In [42]:
```
data = {'state':['Bihar','Bihar','Bihar', 'Gujarat', 'Gujarat', 'Gujarat'],
        'year' : [2001, 2011, 2018, 2001, 2011, 2018],
        'pop' : [8.3, 10.4, 11.9, 5.0, 6.1, 6.4]}

data
```

Out[42]:
```
{'state': ['Bihar', 'Bihar', 'Bihar', 'Gujarat', 'Gujarat', 'Gujarat'],
 'year': [2001, 2011, 2018, 2001, 2011, 2018],
 'pop': [8.3, 10.4, 11.9, 5.0, 6.1, 6.4]}
```

In [43]:
```
state_df = pd.DataFrame(data)
state_df
```

Out[43]:

	state	year	pop
0	Bihar	2001	8.3
1	Bihar	2011	10.4
2	Bihar	2018	11.9
3	Gujarat	2001	5.0
4	Gujarat	2011	6.1

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Run Code

In [51]:
```
state_df2.year
```

Out[51]:
```
one      2001
two      2011
three    2018
four     2001
five     2011
six      2018
Name: year, dtype: int64
```

In [ ]:

In [ ]:

In [ ]:

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Run Code

In [51]:
```
state_df2.year
```

Out[51]:
```
one      2001
two      2011
three    2018
four     2001
five     2011
six      2018
Name: year, dtype: int64
```

In [52]:
```
state_df2.loc['three']
```

Out[52]:
```
year      2018
state    Bihar
pop       11.9
area       NaN
Name: three, dtype: object
```

In [ ]:

In [ ]:

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Run Code

```
Name: year, dtype: int64
```

In [52]:
```
state_df2.loc['three']
```

Out[52]:
```
year      2018
state    Bihar
pop       11.9
area       NaN
Name: three, dtype: object
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

```
state_df2
```

Out[54]:

	year	state	pop	area
one	2001	Bihar	8.3	0.0
two	2011	Bihar	10.4	1.0
three	2018	Bihar	11.9	2.0
four	2001	Gujarat	5.0	3.0
five	2011	Gujarat	8.1	4.0
six	2018	Gujarat	8.4	5.0

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

In [56]:
```
state_df2['area'] = val

state_df2
```

Out[56]:

	year	state	pop	area
one	2001	Bihar	8.3	NaN
two	2011	Bihar	10.4	-1.2
three	2018	Bihar	11.9	NaN
four	2001	Gujarat	-5.0	-1.5
five	2011	Gujarat	6.1	-1.7
six	2018	Gujarat	6.4	NaN

In [ ]:

In [ ]:

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Python 3

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Python 3

SI.NO.	PLAYER N	AGE	COUNTRY	TEAM	PLAYING S	T-RUNS	T-WKTS	ODI-RUNS	ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAIN	CRUNS-S	HS	AVE	SR-B	50/50S	RUNS-C	WKTS	AVE
1	Abdulla, Y	2	SA	KXIP	Allrounder	0	0	0	0	0	0	0	0	0	0	0	0	107	15	
2	Abdur Raz	2	BAN	RCB	Bowler	214	18	657	71.41	192	87.6	0	0	0	0	0	0	29	0	
3	Agarkar, A	2	IND	KKR	Bowler	571	58	2269	80.62	349	104.9	0	167	88	18.94	111.05	5	2203	29	
4	Ashwin, R	1	IND	CSK	Bowler	144	31	341	94.16	51	28.8	0	58	11	5.8	77.12	0	1135	49	
5	Badrinath	2	IND	CSK	Batsman	10		19	75.75	0	0	0	131	71	13.09	135.71	28	5		
6	Bennett, M	2	AUS	DC	Batsman	9	0	172	72.88	8	8	1	94	48	23	79.49	0	9	1	
7	Bhatia, J	2	IND	CSK+	Bowler	16	71	133	76.44	34	40.5	0	36	15	4.13	71.37	1	1747	55	
8	Bollinger	2	AUS	CSK	Bowler	14	30	22	52.39	61	31.3	0	21	16	22	154.86	1	695	57	
9	Botha, J	2	SA	RR	Allrounder	49	37	685	85.77	72	55	1	155	47	10.45	128.1	1	820	26	
10	Boucher, J	2	SA	RCB+	D. Keeper	55.15	1	4408	66.75	0	0	1	394	50	26.34	122.51	12	0	87	
11	Brett, G	2	WI	MI+	Allrounder	2170	86	2094	51.28	142	34.2	0	339	75	27.84	127.14	22	1246	67	
12	Chandela	1	WI	RCB	Batsman	1924	3	4778	93.75	24	52.6	1	33	18	8.14	99.64	6	2	6	
13	Chawla, P	1	IND	KXIP	Allrounder	0	0	0	65.0	93	41	0	337	36	14.44	113.69	4	1618	37	
14	de Villiers	2	SA	DD+	W. Keeper	5413	2	4998	75.29	0	0	1	2322	176	16.28		42	0		
15	Dhawan	2	IND	MI+	Batsman	4	0	85	56.67	0	0	0	1349	95	47.49	132.35	19	86	4	
16	Dilshan, N.P.	2	SRI	CSK	W. Keeper	5669	0	7773	85.19	1	13	1	4303	70	77.13	136.95	68	0	5	
17	Dinesh, T	2	SL	DD+	Allrounder	4922	22	4411	88.5	17	15.3	1	1277	75	28.14	111.02	21	759	1	
18	Dirtey, A.B	2	RSA	KXIP+	Bowler	4	0	19	82	3	81.4	0	6	3	3	33.33	0	705	54	
19	Dravid, R	1	IND	RCB+	Batsman	13.08	1	13889	71.24	4	46.5	1	1703	75	27.43	114.06	73	0	0	
20	Sharma,	2	SA	MI+	Batsman	634	2	2102	84	0	4.1	0	975	14	40.62	125.27	33	1.1	3	
21	Wheatley	2	WI	DC	Bowler	367	13	71	75.42	57	19.8	2	4	1	4	80	1	164	1	

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Python 3

ID NO.	PLAYER NAME	COUNTRY	TEAM	PLAYING ROLE	MATCHES	RUNS	AVG	SR
1	Abbas, Y	SA	KXIP	Allrounder	0	0	0	0
2	Abdur Raz	BAN	RCB	Bowler	294	18	857	71.41
3	Agarkar, A	IND	KKR	Bowler	571	84	1283	40.61
4	Ashwin, R	IND	CSK	Bowler	384	51	341	86.09
5	Badrinath	IND	CSK	Batsman	84	6	73	65.50
6	Bailey, GJ	AUS	CSK	Batsman	6	5	177	72.26
7	Balaji	IND	CSK	Bowler	91	23	120	76.86
8	Behringer	AUS	CSK	Bowler	54	10	72	91.55
9	Bothaj L	SA	RR	Allrounder	93	17	659	89.77
10	Boucher, J	SA	RCB+	Bl. Keeper	5515	1	4846	84.38
11	Botha, DJ	AUS	MI+	Allrounder	1200	44	2603	41.39
12	Chandila	IND	RCB	Bowler	8962	4	8779	75.78
13	Chawla, P	IND	KXIP	Allrounder	3	5	10	10.33
14	de Villiers	SA	DD+	Bl. Keeper	9857	1	4846	84.19
15	Dhawan, S	IND	MI+	Batsman	4	4	39	36.08
16	Dhoni, MS	IND	CSK	Bl. Keeper	3309	3	4721	88.19
17	Duffen, T	SA	DD+	Allrounder	4322	32	4455	86.6
18	Dhulia, AB	IND	MI+	Bowler	6	5	38	90
19	Dravid, RS	IND	RCB+	Batsman	13288	3	10393	71.29
20	Dunning, J	SA	MI+	Batsman	894	12	2559	94
21	Edwards	IN	DD	Bowler	380	157	77	95.52

SL.NO.	PLAYER N	AGE	COUNTRY	TEAM	PLAYING FT	RUNS	T WKTS	ODI RUNS	ODI SR B	ODI WKTS	ODI SR BI	CAPTAIN	C RUNS	S HS	AVE	SR B	50ERS	RUNS C	WKTS	AVE BI	ECON	SR BI	AUCTION	BASE PRICE	SOLD PRICE
1	1 Abdulla, Y	2	SA	KXIP	Allrounde	0	0	0	0	0	0	0	0	0	0	0	0	807	33	20.47	8.9	13.93	2009	10000	30000
2	2 Abdur Raz	2	BAN	RCB	Bowler	244	18	657	71.41	185	37.6	0	0	0	0	0	0	29	0	0	8.3	0	2008	50000	50000
3	3 Agarkar, A	2	IND	KKR	Bowler	571	58	1269	80.62	288	32.9	0	167	29	18.56	121.01	5	1054	29	36.52	8.81	24.3	2008	200000	350000
4	4 Ashwin, R	1	IND	CSK	Bowler	284	31	241	84.56	31	35.8	0	59	13	5.9	78.32	0	1120	49	22.86	6.23	22.14	2011	100000	850000
5	5 Badrinath	2	IND	CSK	Batsman	63	0	79	43.93	0	0	0	1317	71	32.93	120.71	28	9	0	0	0	0	2011	100000	800000
6	6 Bailey, GJ	2	AUS	CSK	Batsman	0	0	172	72.26	0	0	1	93	48	31	95.45	0	0	0	0	0	0	2009	50000	50000
7	7 Balaji, L	2	IND	CSK+	Bowler	31	27	120	78.94	34	42.3	0	28	13	4.33	92.22	1	1342	32	25.03	7.98	19.4	2011	100000	500000
8	8 Bollinger,	2	AUS	CSK	Bowler	54	50	50	92.59	62	33.3	0	21	16	21	165.88	1	807	37	18.78	7.22	15.57	2011	200000	700000
9	9 Botha, J	2	SA	RR	Allrounde	83	37	609	85.77	72	53	1	325	67	30.45	114.73	3	816	39	32.33	6.85	28.31	2011	200000	550000
10	10 Boucher,	2	SA	RCB+	W. Keepe	1013	1	4686	84.78	0	0	1	394	30	28.14	127.51	13	0	0	0	0	0	2008	200000	400000
11	11 Bravo, DJ	2	WI	MI+	Allrounde	2200	86	2004	81.39	142	34.1	0	805	70	27.97	127.12	38	1338	47	28.47	8.12	21.13	2011	200000	200000
12	12 Chanderp	3	WI	RCB	Batsman	9916	9	6778	76.74	14	52.8	1	25	16	5.33	80.64	0	0	0	0	0	0	2008	200000	200000
13	13 Chawla, P	1	IND	KXIP	Allrounde	3	3	38	65.51	32	41	0	337	24	12.48	113.09	9	1819	73	126.3	36.11	100.2	2008	125000	400000
14	14 de Villiers	2	SA	DD+	W. Keepe	5457	2	4008	93.10	0	0	1	1302	105	34.26	128.53	42	0	0	0	0	0	2008	200000	300000
15	15 Dhawan, S	2	IND	MI+	Batsman	0	0	69	56.09	0	0	0	1540	95	31.43	122.32	38	66	4	16.5	8.25	12	2011	100000	300000
16	16 Dhoni, MS	2	IND	CSK	W. Keepe	3905	0	6773	88.13	1	12	1	1782	70	37.13	136.43	64	0	0	0	0	0	2008	400000	1500000
17	17 Dilshan, T	2	SL	DD+	Allrounde	4722	32	6455	88.8	67	58.3	1	2077	76	28.34	137.83	24	256	5	71.2	8.07	53	2008	150000	250000
18	18 Dinda, AB	2	IND	KKR+	Bowler	6	0	18	60	5	61.4	0	8	2	1	33.33	0	926	38	35.72	7.29	21.19	2011	100000	375000
19	19 Dravid, RS	3	IND	RCB+	Batsman	13288	1	10889	71.24	4	46.5	1	1703	75	27.92	110.88	23	0	0	0	0	0	2011	300000	500000
20	20 Duminy, J	2	SA	MI+	Batsman	654	11	2536	84	25	47.6	0	978	74	38.22	119.27	33	377	10	37.7	7.11	31.8	2009	300000	300000
21	21 Edwards, J	2	WI	DC	Bowler	380	157	73	45.62	60	35.6	0	4	3	4	80	0	154	5	30.8	8.8	28	2009	150000	150000
22	22 Fernando,	2	SL	MI	Bowler	249	97	239	60.96	187	34.7	0	4	2	0	133.33	0	298	17	17.53	7.64	13.78	2008	130000	130000
23	23 Fleming, S	3	NZ	CSK	Batsman	7172	0	8037	71.49	1	29	1	198	45	21.77	118.78	3	0	0	0	0	0	2008	350000	350000
24	24 Flintoff, A	2	ENG	CSK	Allrounde	3845	226	3194	88.83	169	33.2	1	62	24	31	116.98	2	105	2	52.5	9.55	33	2009	950000	1550000
25	25 Gambhir,	2	IND	DD+	Batsman	3712	0	4819	86.17	0	0	1	2053	93	33.31	138.9	32	0	0	0	0	0	2008	220000	720000
26	26 Ganguly, S	3	IND	KKR+	Batsman	7212	32	11263	75.7	100	43.6	1	1349	91	25.48	106.81	42	363	10	36.3	7.85	27.8	2011	200000	400000
27	27 Gayle, CH	2	WI	KKR+	Allrounde	6371	72	8037	83.95	156	44.4	1	1804	128	50.11	161.79	129	606	13	46.62	8.05	34.85	2008	750000	800000
28	28 Gibbs, HH	3	SA	DC	Batsman	6167	0	8394	83.26	0	0	1	980	99	27.69	109.79	31	0	0	0	0	0	2008	250000	575000
29	29 Gilchrist, A	3	AUS	DC+	W. Keepe	5570	0	9613	96.54	0	0	1	1775	109	27.73	140.21	86	0	0	0	0	0	2008	300000	700000
30	30 Gony, MS	2	IND	CSK+	Bowler	0	0	0	0	2	39	0	54	15	9	117.39	5	999	30	33.3	8.47	23.6	2011	50000	290000
31	31 Harbhajan	2	IND	MI	Bowler	2164	408	1190	80.51	259	46.3	1	430	89	16.54	151.41	22	1469	34	27.2	6.82	23.83	2008	250000	620000
32	32 Harris, RJ	2	AUS	DC+	Bowler	199	46	48	100	44	23.4	0	113	17	10.45	107.48	1	975	44	22.16	7.71	17.27	2011	200000	525000
33	33 Hayden, M	3	AUS	CSK	Batsman	8825	0	6133	78.96	0	0	0	1107	93	35.5	117.52	44	0	0	0	0	0	2008	375000	375000
34	34 Henderso	3	SA	RR	Allrounde	0	0	0	0	0	0	0	11	11	5.5	68.75	1	40	1	40	9.66	39	2009	100000	600000
35	35 Henriques	1	AUS	KKR+	Allrounde	0	0	18	60	1	30	0	43	30	18.33	108.85	1	142	3	47.33	8.82	32.33	2011	50000	50000
36	36 Hodge, BJ	3	AUS	KKR+	Batsman	503	0	575	87.51	1	66	0	1008	73	31.44	121.5	28	300	17	17.65	7.89	13.41	2011	300000	425000
37	37 Hopes, JR	2	AUS	KXIP	Allrounde	0	0	1328	93.71	97	47.1	0	417	71	26.06	116.27	11	549	14	39.14	9.12	25.71	2011	200000	320000

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SI.NO.	PLAYER N	AGE	COUNTRY	TEAM	PLAYING FT	RUNS	T-WKTS	ODI RUNS	ODI SR-B	ODI-WKTS	ODI-SR-BI	CAPTAINC	RUNS-S	HS	AVF	SR-B	50ERS	RUNS-C	WKTS	AVF-BI	ECON	SR-BI	AUCTION	BASE PRIC	SOLD PRICE
1	Abdulla, Y	2	SA	KXIP	Allrounde	0	0	0	0	0	0	0	0	0	0	0	0	807	15	20.47	8.5	15.53	2009	50000	30000
2	Abdur Raz	2	BAN	RCB	Bowler	244	18	887	71.44	185	97.6	0	0	0	0	0	0	25	0	0	14.5	0	2008	50000	50000
3	Agarkar, A	2	IND	KKR	Bowler	571	58	1269	80.63	288	32.9	0	167	39	18.56	121.01	5	1059	29	36.52	8.81	24.3	2008	200000	350000
4	Ashwin, R	1	IND	CSK	Bowler	284	31	241	84.58	31	36.6	0	58	11	5.8	79.32	0	1120	49	22.86	6.23	22.14	2011	100000	850000
5	Badrinath	2	IND	CSK	Batsman	63	0	79	45.93	0	0	0	1317	71	32.93	120.71	28	0	0	0	0	0	2011	100000	800000
6	Bailey, G	2	AUS	CSK	Batsman	0	0	172	70.26	0	0	1	93	88	31	95.45	0	0	0	0	0	0	2009	50000	50000
7	Balaji, L	2	IND	CSK+	Bowler	31	27	120	76.94	38	42.3	0	26	10	4.33	72.22	1	1342	32	25.81	7.98	19.4	2011	100000	500000
8	Bollinger,	2	AUS	CSK	Bowler	54	50	50	92.59	62	31.3	0	22	16	21	165.88	1	850	37	18.78	7.22	15.57	2011	200000	700000
9	Botha, J	2	SA	RR	Allrounde	83	37	609	85.77	79	53	1	935	67	30.45	134.73	3	810	19	37.11	9.65	28.31	2011	200000	950000
10	Boucher,	2	SA	RCB+	W. Keepe	1013	1	4666	84.78	0	0	1	694	50	26.14	121.51	13	0	0	0	0	0	2008	200000	450000
11	Bravo, D	2	WI	MI+	Allrounde	2200	88	2094	81.39	142	34.1	0	830	70	27.97	127.12	38	1338	47	28.47	8.12	21.12	2011	200000	200000
12	Chandero	3	WI	RCB	Batsman	9918	9	6778	76.74	54	52.8	1	25	16	5.33	80.64	0	0	0	0	0	0	2008	700000	200000
13	Chawla, P	1	IND	KXIP	Allrounde	3	3	88	60.31	32	43	0	337	24	12.48	113.09	3	1319	73	126.5	96.11	100.2	2008	125000	400000
14	de Villiers	2	SA	DD+	W. Keepe	5457	2	4008	93.18	0	0	1	1362	105	34.28	128.53	42	0	0	0	0	0	2008	200000	300000
15	Dhawan, S	2	IND	MI+	Batsman	6	0	55	56.05	0	0	0	1540	95	31.43	122.22	36	66	4	16.5	6.25	32	2011	100000	300000
16	Dhoni, MS	2	IND	CSK	W. Keepe	3505	0	6773	88.19	1	12	1	1792	70	37.13	136.45	64	0	0	0	0	0	2008	400000	1500000
17	Dilshan, T	2	SL	DD+	Allrounde	4722	32	6835	88.8	67	56.3	1	2077	76	28.34	117.63	24	356	5	71.2	8.07	53	2008	150000	250000
18	Dinda, AB	2	IND	KKR+	Bowler	0	0	18	66	5	69.4	0	8	2	1	33.33	0	936	36	35.72	7.29	21.39	2011	100000	375000
19	Dravid, RS	3	IND	RCB+	Batsman	13288	1	10889	71.24	4	46.3	1	1703	75	27.50	116.88	25	0	0	0	0	0	2011	400000	500000
20	Duminy, J	2	SA	MI+	Batsman	654	11	2536	84	25	47.6	0	979	74	36.22	149.27	35	377	10	37.7	7.11	31.8	2009	300000	300000
21	Edwards, J	2	WI	DC	Bowler	186	157	75	45.62	60	35.6	0	4	3	4	80	0	154	5	30.8	8.8	35	2009	150000	150000
22	Fernando,	2	SL	MI	Bowler	289	97	229	60.98	187	34.7	0	4	2	0	133.33	0	296	17	17.56	7.04	15.39	2008	130000	130000
23	Fleming, S	3	NZ	CSK	Batsman	7172	0	8037	71.49	1	29	1	158	45	21.77	118.78	3	0	0	0	0	0	2008	350000	350000
24	Flintoff, A	2	ENG	CSK	Allrounde	1845	228	3194	81.82	169	32.2	1	62	24	31	116.98	2	103	2	51.5	9.55	33	2009	950000	1550000
25	Gambhir,	2	IND	DD+	Batsman	3712	0	4819	86.17	0	0	1	2893	93	33.31	126.9	32	0	0	0	0	0	2008	420000	725000
26	Ganguly, S	3	IND	KKR+	Batsman	7212	32	11263	73.7	100	45.6	1	1349	91	25.45	108.61	42	363	10	36.3	7.85	27.6	2011	200000	400000
27	Gayle, CH	2	WI	KKR+	Allrounde	6371	72	8057	83.95	156	44.4	1	1604	128	50.11	161.79	129	606	11	46.62	8.05	34.85	2008	750000	800000
28	Gibbs, HH	3	SA	DC	Batsman	6167	0	8794	83.26	0	0	1	989	69	27.69	109.75	41	0	0	0	0	0	2008	250000	575000
29	Gilchrist, A	3	AUS	DC+	W. Keepe	5570	0	9615	96.94	0	0	1	1775	109	27.73	140.21	86	0	0	0	0	0	2008	300000	700000
30	Goony, MS	2	IND	CSK+	Bowler	6	0	0	0	2	39	0	54	15	9	117.39	5	999	30	33.3	8.47	23.8	2011	30000	700000
31	Harbhajan	2	IND	MI	Bowler	2364	408	1190	89.51	259	46.3	1	430	89	26.94	131.81	22	1965	34	27.2	9.80	23.69	2008	250000	600000
32	Harris, SJ	2	AUS	DC+	Bowler	190	88	88	200	84	23.4	0	115	17	10.45	107.48	1	975	44	32.16	7.71	17.27	2011	200000	325000
33	Hayden, M	3	AUS	CSK	Batsman	8625	0	6133	76.96	0	0	0	1107	93	36.9	137.52	44	6	0	0	0	0	2008	375000	375000
34	Henderso	3	SA	RR	Allrounde	0	0	0	0	0	0	0	11	11	3.3	68.75	1	40	1	40	9.66	36	2009	100000	600000
35	Henriques	1	AUS	KKR+	Allrounde	0	0	18	60	1	90	0	43	30	18.33	108.83	1	142	3	47.33	8.82	32.33	2011	50000	50000
36	Hodge, B	3	AUS	KKR+	Batsman	503	0	575	87.51	1	56	0	606	75	31.44	121.5	28	100	17	17.65	7.89	13.41	2011	700000	875000
37	Hopes, JR	2	AUS	KXIP	Allrounde	0	0	1326	93.71	67	47.1	0	417	71	26.06	136.27	11	549	14	39.14	9.13	25.71	2011	200000	600000

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SI.NO.	PLAYER NAME	AGE	COUNTRY	TEAM	PLAYING ROLE	RUNS	T WKTS	ODI RUNS	ODI SR.B	ODI WKTS	ODI SR.BL	CAPTAIN	RUNS S	HS	AVE	SR.B	SIXERS	RUNS-C	WKTS	AVE.BL	ECON	SR.BL	AUCTION	BASE PRICE	SOLD PRICE
1	Abdulla, YA		2 SA	KXIP	Allrounde	0	0	0	0	0	0	0	0	0	0	0	0	90	1	30.47	8.5	33.59	2009	10000	10000
2	Abdul Razzak		2 BAN	RCB	Bowler	214	18	897	72.41	185	97.8	0	0	0	0	0	0	28	0	0	4.5	0	2008	50000	50000
3	Agarkar, AB		2 IND	KKR	Bowler	571	58	1269	80.62	288	32.9	0	167	39	19.56	175.01	5	1059	26	39.52	5.81	36.5	2008	200000	250000
4	Ashwin, R		1 IND	CSK	Bowler	884	61	413	84.98	33	98.4	0	56	13	5.8	79.02	9	1120	49	22.98	6.23	22.14	2011	100000	420000
5	Badrinath, S		2 IND	CSK	Batsman	63	0	73	45.93	0	0	0	1317	71	32.93	120.71	28	0	0	0	0	0	2011	100000	800000
6	Bailey, GJ		2 AUS	CSK	Batsman	0	0	172	72.26	0	0	1	61	48	25	95.45	0	0	0	0	0	0	2009	50000	50000
7	Balaji, L		2 IND	CSK+	Bowler	31	27	128	78.94	69	42.3	0	28	13	4.33	73.22	1	1343	32	25.65	7.98	23.9	2012	100000	500000
8	Bollinger, DE		2 AUS	CSK	Bowler	56	50	50	92.59	62	31.3	0	21	18	21	165.88	1	850	37	18.73	7.22	15.57	2011	200000	700000
9	Botha, J		2 SA	RR	Allrounde	83	37	600	55.77	72	53	1	101	87	16.45	134.73	1	816	39	32.19	6.65	29.11	2011	200000	550000
10	Boucher, MV		2 SA	RCB+	W. Keepe	3513	1	8898	84.98	0	0	1	394	30	26.14	120.51	13	0	0	0	0	0	2008	200000	400000
11	Bravo, DJ		2 WI	MIV	Allrounde	2200	68	2604	81.30	142	34.1	0	305	70	27.97	127.12	86	1336	47	28.87	8.32	21.11	2011	200000	200000
12	Chandrasoul, S		1 IN	RCB	Batsman	9918	9	6778	75.74	54	52.8	1	25	18	5.33	80.64	0	0	0	0	0	0	2008	200000	200000
13	Chawla, PP		1 IND	KXIP	Allrounde	3	3	98	65.32	12	41	0	107	24	13.49	113.05	9	1013	73	126.3	86.11	109.2	2008	120000	400000
14	de Villiers, AB		2 SA	RCB+	W. Keepe	1457	2	4268	51.19	0	0	1	1302	105	34.26	128.53	42	0	0	0	0	0	2008	200000	900000
15	Dhawan, S		2 IND	MIV	Batsman	0	0	69	56.09	0	0	0	1540	85	31.43	122.32	38	68	4	16.5	6.75	17	2011	100000	800000
16	Dhoni, MS		2 IND	CSK	W. Keepe	8305	9	6173	66.19	1	12	1	1782	92	37.13	136.45	64	0	0	0	0	0	2008	900000	1300000
17	Dilshan, TM		2 SL	DD+	Allrounde	4722	22	6455	88.8	62	58.3	1	1077	79	28.94	167.83	24	256	3	71.3	8.07	53	2008	150000	250000
18	Dinda, AB		2 IND	KKR+	Bowler	0	0	18	60	3	65.4	0	8	2	1	33.33	0	626	28	35.22	7.39	31.19	2011	100000	275000
19	Dravid, RS		5 IND	RCB+	Batsman	11288	1	10939	71.04	4	46.3	1	1703	75	23.62	108.68	69	0	0	0	0	0	2011	400000	500000
20	Duminy, J-P		2 SA	MI+	Batsman	954	11	2538	84	25	87.6	0	978	74	36.22	119.37	35	377	10	37.7	7.11	31.8	2009	200000	500000
21	Edwards, FH		2 WI	DC	Bowler	383	157	73	45.62	60	35.6	0	4	3	4	80	0	154	5	30.8	8.8	28	2009	150000	150000
22	Fernando, CKD		2 SL	MI	Bowler	289	91	289	68.39	167	39.7	0	4	2	0	133.33	0	298	17	17.53	4.94	23.78	2009	120000	120000
23	Fleming, SP		3 NZ	CSK	Batsman	7172	0	8037	71.49	1	33	1	198	43	21.77	118.79	3	0	0	0	0	0	2008	350000	350000
24	Flintoff, A		2 ENG	CSK	Allrounde	3845	228	3194	88.87	163	33.2	1	67	34	31	158.98	3	505	3	52.5	5.53	33	2009	950000	550000
25	Gambhir, G		2 IND	DD+	Batsman	6712	0	9928	69.17	0	0	1	1090	93	31.21	136.5	32	0	0	0	0	0	2008	220000	120000
26	Ganguly, SC		3 IND	KKR+	Batsman	7212	32	14283	73.7	100	45.6	1	1340	31	25.43	108.81	42	361	10	36.1	7.39	27.6	2011	200000	400000
27	Gayle, CH		2 WI	KKR+	Allrounde	6373	73	8027	83.95	158	44.4	1	1804	128	30.11	161.79	125	806	13	46.62	8.05	34.85	2008	950000	600000
28	Gibbs, HH		3 SA	DL	Batsman	6167	0	8894	63.26	0	0	1	900	99	27.85	109.75	31	0	0	0	0	0	2008	200000	500000
29	Gilchrist, AC		3 AUS	DC+	W. Keepe	5570	0	9623	96.94	0	0	1	1775	109	27.72	140.21	88	0	0	0	0	0	2008	200000	700000
30	Gony, MS		2 IND	CSK+	Bowler	0	0	0	0	1	19	0	54	15	5	117.39	5	999	30	33.3	8.47	33.6	2011	50000	700000
31	Harbhajan Singh		2 IND	MI	Bowler	2384	408	1290	89.51	269	46.3	1	459	49	16.54	131.41	22	1449	14	24.1	6.83	23.63	2008	200000	600000
32	Harris, B		2 AUS	DC+	Bowler	100	48	48	100	44	23.4	0	113	17	10.43	167.49	3	373	44	32.18	7.71	17.27	2011	200000	325000
33	Hayden, ML		5 AUS	CSK	Batsman	8625	0	6319	78.96	3	0	0	1107	93	36.5	137.53	44	0	0	0	0	0	2008	225000	275000
34	Henderson, T		3 SA	RR	Allrounde	0	0	0	0	0	0	0	13	13	3.5	93.33	1	40	1	40	6.68	38	2009	100000	600000
35	Henriques, MC		1 AUS	KKR+	Allrounde	0	0	18	60	1	30	0	45	30	18.33	108.88	1	162	3	67.33	8.82	32.33	2011	50000	50000
36	Hodge, BJ		5 AUS	KKR+	Batsman	503	0	575	67.51	1	66	0	1009	79	33.64	121.3	28	105	17	17.85	7.69	13.[illegible]			
37	Hogg, JR		2 AUS	KXIP	Allrounde	0	0	1320	92.71	97	47.1	0	417	71	26.06	136.27	11	949	14	35.14	9.13	23.[illegible]			
38	[illegible]		[illegible]	[illegible]	[illegible]	0	0	1386	[illegible]	18	[illegible]	0	271	71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			

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BHAVINI DASH

BITS Pilani

D1 COUNTRY

SL.NO.	PLAYER NAME	AGE	COUNTRY	TEAM	PLAYING ET	RUNS	T WKTS	ODI RUNS	ODI SR B	ODI WKTS	ODI SR BI	CAPTAIN	RUNS S	HS	AVE	SR B	50SRS	RUNS C	WKTS	AVE BI	ECON	SR BI	AUCTION	BASE PRIC	SOLD PRICE
1	1 Abdulla, YA		2 SA	KXIP	Allrounde	0	0	0	0	0	0	0	0	0	0	0	0	307	13	39.47	8.9	18.53	2009	50000	10000
2	2 Abdul Razzak		2 BAN	RCB	Bowler	214	18	657	71.41	183	37.6	0	0	0	0	0	0	23	0	0	16.5	0	2008	50000	50000
3	3 Agarkar, AR		2 IND	KKR	Bowler	571	53	1359	80.62	201	32.9	0	167	39	18.56	131.01	5	1056	29	36.52	8.83	24.9	2008	200000	150000
4	4 Ashwin, R		1 IND	CSK	Bowler	284	31	241	84.36	31	36.8	0	39	11	5.8	46.92	0	1120	49	22.96	6.23	22.14	2011	100000	600000
5	5 Badrinath, S		2 IND	CSK	Batsman	63	0	79	45.50	0	0	0	1317	71	32.90	120.71	28	0	0	0	0	0	2011	100000	800000
6	6 Bailey, GJ		2 AUS	CSK	Batsman	0	0	172	72.26	0	0	1	63	48	21	95.45	0	0	3	0	0	0	2009	50000	50000
7	7 Balaji, L		2 IND	CSK+	Bowler	31	27	187	76.94	38	42.5	0	29	19	6.33	41.22	1	1341	32	25.81	7.98	19.4	2011	100000	300000
8	8 Bollinger, DE		2 AUS	CSK	Bowler	54	50	50	92.59	82	31.3	0	21	18	21	166.88	1	980	37	48.73	7.22	43.57	2011	200000	700000
9	9 Botha, J		2 SA	RR	Allrounde	83	17	604	85.77	72	31	1	133	67	30.45	134.73	1	810	19	32.11	6.85	28.11	2011	200000	950000
10	10 Boucher, MV		2 SA	RCB+	W. Keepe	1013	1	4686	84.46	0	0	1	394	50	28.24	127.51	12	0	0	0	0	0	2008	200000	450000
11	11 Bravo, DJ		2 WI	MI+	Allrounde	2300	86	2004	81.39	142	34.1	0	839	70	27.97	127.12	16	1108	47	28.47	8.12	21.11	2011	200000	200000
12	12 Chanderpaul, S		3 WI	RCB	Batsman	5914	9	6778	70.74	14	57.8	1	20	16	8.33	80.64	0	0	0	0	0	0	2008	200000	200000
13	13 Chawla, PP		1 IND	KXIP	Allrounde	3	3	38	60.51	32	41	0	337	24	15.48	113.09	9	1619	43	126.3	58.11	130.2	2008	120000	400000
14	14 de Villiers, AB		2 SA	DD+	W. Keepe	5457	2	4598	93.19	0	0	1	1302	105	34.26	128.51	42	0	0	0	0	0	2008	200000	300000
15	15 Dhawan, S		2 IND	MI+	Batsman	0	0	89	56.08	0	0	0	1540	95	31.42	121.32	16	66	4	16.5	8.25	12	2011	100000	300000
16	16 Dhoni, MS		2 IND	CSK	W. Keepe	3309	0	6173	88.19	1	12	1	1782	70	37.13	135.43	24	0	0	0	0	0	2008	400000	1200000
17	17 Dilshan, TM		2 SL	DD+	Allrounde	4722	22	8465	86.8	67	58.3	1	1077	76	28.34	117.83	24	104	5	71.2	8.07	53	2008	150000	250000
18	18 Dinda, AB		2 IND	KKR+	Bowler	0	0	18	60	5	61.4	0	6	2	3	33.33	0	926	36	25.72	7.26	21.19	2011	100000	375000
19	19 Dravid, RS		3 IND	RCB+	Batsman	11288	1	10985	71.28	4	46.5	1	1703	75	27.92	116.88	23	0	0	0	0	0	2011	400000	900000
20	20 Duminy, J-P		2 SA	MI+	Batsman	954	11	2536	84	23	47.6	0	978	74	36.22	143.27	15	377	10	37.7	7.11	31.8	2009	300000	300000
21	21 Edwards, FH		2 WI	DC	Bowler	188	157	71	45.62	90	35.6	2	4	3	4	80	0	154	5	30.8	6.6	28	2009	150000	150000
22	22 Fernando, CRD		2 SL	MI	Bowler	249	97	239	60.96	187	38.7	0	4	2	0	133.33	0	298	17	17.53	7.64	13.4	2008	150000	150000
23	23 Fleming, SP		3 NZ	CSK	Batsman	7172	0	8037	71.49	1	29	1	198	45	21.77	118.78	3	0	0	0	0	0	2009	250000	350000
24	24 Flintoff, A		2 ENG	CSK	Allrounde	3345	226	3194	80.82	169	33.2	1	62	24	31	116.98	2	105	7	52.5	6.58	32	2009	950000	1550000
25	25 Gambhir, G		2 IND	DD+	Batsman	3752	0	4819	86.17	0	0	1	2363	59	33.31	128.5	32	0	0	0	0	0	2008	220000	725000
26	26 Ganguly, SC		3 IND	KKR+	Batsman	7212	32	11363	73.7	100	45.6	1	1343	91	25.45	108.81	42	263	10	36.3	7.89	27.6	2011	200000	400000
27	27 Gayle, CH		2 WI	KKR+	Allrounde	6273	72	8067	83.95	156	44.4	1	1804	128	50.11	161.79	129	806	12	46.62	8.05	34.85	2008	750000	800000
28	28 Gibbs, HH		3 SA	DC	Batsman	6297	0	8794	83.26	0	0	1	389	89	27.69	105.75	31	0	0	0	0	0	2008	220000	575000
29	29 Gilchrist, AC		3 AUS	DC+	W. Keepe	5570	0	5612	96.94	0	0	1	1773	109	27.73	140.21	36	0	0	0	0	0	2008	200000	700000
30	30 Gony, MS		2 IND	CSK+	Bowler	0	0	0	0	2	39	0	54	15	6	117.39	5	999	30	33.3	8.47	23.6	2011	50000	200000
31	31 Harbhajan Singh		2 IND	MI	Bowler	2284	406	1350	80.51	226	46.5	1	430	49	16.34	131.41	22	1469	34	27.2	6.80	23.83	2008	250000	650000
32	32 Hariss, BJ		2 AUS	DC+	Bowler	199	48	48	106	44	23.4	0	113	17	10.45	107.48	3	975	44	22.16	7.71	17.27	2011	200000	325000
33	33 Hayden, ML		5 AUS	CSK	Batsman	3625	0	6133	78.98	0	0	0	1167	93	30.9	137.52	44	0	0	0	0	0	2008	225000	375000
34	34 Henderson, F		3 SA	RR	Allrounde	0	0	0	0	0	0	0	11	11	5.5	68.75	1	40	1	40	6.66	36	2009	100000	600000
35	35 Henriques, MC		1 AUS	KKR+	Allrounde	0	0	18	60	1	90	0	43	30	16.33	108.89	1	142	3	47.33	8.82	32.33	2011	50000	50000
36	36 Hodge, BJ		3 AUS	KKR+	Batsman	503	3	575	87.51	1	36	0	1004	73	31.44	131.5	28	300	17	17.65	7.89				
37	37 Hopes, JR		2 AUS	KXIP	Allrounde	0	0	1320	93.71	97	47.1	0	457	71	26.06	136.27	11	549	19	39.14	9.13				
38	38 Jayasuriya, ST		2 SL	KKR+	Allrounde	0	0	1188	91.3	48	39.7	0	971	71	36.34	179.78	99	149	4	37.5	8.69				

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A RAMAKRISHNA

BITS Pilani

SL.NO.	PLAYER NAME	AGE	COUNTRY	TEAM	PLAYING ROLE	T RUNS	T WKTS	ODI RUNS	ODI SR.B	ODI WKTS	ODI SR.BL	CAPTAIN	CRUNS	HS	AVE	SR.B	50&5	RUNS-C	WKTS	AVE.BL	ECON	SR.BL	AUCTION	BASE PRIC	SOLD PRICE
1	1 Abdulla, YA		2 SA	KXIP	Allrounder	0	0	0	0	0	0	0	0	0	0	0	0	307	15	20.47	6.5	18.95	2009	30000	30000
2	2 Abdur Razzak		2 BAN	RCB	Bowler	214	18	657	71.41	185	97.6	0	0	0	0	0	0	20	0	0	14.5	0	2008	50000	50000
3	3 Agarkar, AB		2 IND	KKR	Bowler	571	58	1269	86.62	349	120.9	0	167	19	18.56	115.01	5	1059	29	36.52	8.81	24.9	2008	200000	250000
4	4 Ashwin, R		1 IND	CSK	Bowler	284	11	241	84.58	33	98.8	0	59	13	3.8	76.32	0	1120	35	22.98	6.23	22.14	2011	100000	400000
5	5 Badrinath, S		2 IND	CSK	Batsman	63	0	79	45.93	0	0	0	1317	71	32.93	120.71	28	0	0	0	0	0	2011	100000	800000
6	6 Bailey, GJ		2 AUS	CSK	Batsman	0	0	177	77.26	0	0	1	63	48	21	95.45	0	6	0	0	0	0	2009	50000	50000
7	7 Balaji, L		2 IND	CSK+	Bowler	51	27	120	76.94	14	42.3	0	20	13	4.33	72.22	1	1142	52	25.01	7.98	19.4	2011	100000	500000
8	8 Bollinger, DE		2 AUS	CSK	Bowler	54	50	50	92.59	62	91.3	0	21	28	21	165.88	1	890	37	38.73	7.22	15.57	2011	200000	700000
9	9 Botha, J		2 SA	RR	Allrounder	83	17	909	85.77	72	53	1	515	67	30.48	114.73	3	816	39	32.15	6.68	28.11	2011	200000	950000
10	10 Boucher, MV		2 SA	RCB+	W. Keeper	1013	1	4606	84.76	0	0	1	694	30	26.14	121.21	13	0	0	0	0	0	2008	200000	400000
11	11 Bravo, DJ		2 WI	MI+	Allrounder	2200	88	2004	81.30	142	34.1	0	830	70	27.97	127.12	18	1338	47	28.47	8.12	23.11	2011	200000	200000
12	12 Chanderpaul, S		3 WI	RCB	Batsman	9918	3	8775	75.74	54	57.8	1	25	46	5.33	80.64	0	0	0	0	0	0	2008	200000	200000
13	13 Chawla, PP		1 IND	KXIP	Allrounder	3	3	89	65.32	32	43	0	337	24	12.48	113.05	9	1013	73	126.3	16.11	109.2	2008	120000	400000
14	14 de Villiers, AB		2 SA	DD+	W. Keeper	5457	2	4008	91.19	0	0	1	1302	105	34.26	128.53	42	0	0	0	0	0	2008	200000	300000
15	15 Dhawan, S		2 IND	MI+	Batsman	6	0	99	56.09	0	0	0	1540	95	31.42	122.22	18	66	4	16.5	6.25	17	2011	100000	300000
16	16 Dhoni, MS		2 IND	CSK	W. Keeper	1005	0	6775	86.13	1	12	1	1782	92	61.12	138.40	64	0	0	0	0	0	2008	400000	1500000
17	17 Dilshan, TM		2 SL	DD+	Allrounder	4722	32	6435	88.8	67	56.3	1	1077	78	28.34	117.84	24	334	5	71.2	8.07	53	2008	150000	250000
18	18 Dinda, AB		2 IND	KKR+	Bowler	0	0	18	60	5	61.4	0	8	2	1	33.33	0	926	16	35.72	7.29	25.19	2011	100000	375000
19	19 Dravid, RS		5 IND	RCB+	Batsman	10889	1	10889	71.24	4	46.3	1	1703	75	23.92	110.88	23	0	0	0	0	0	2011	400000	500000
20	20 Duminy, J-P		2 SA	MI+	Batsman	654	11	2536	84	23	67.8	0	978	74	30.22	123.27	15	377	10	37.7	7.11	31.8	2010	300000	300000
21	21 Edwards, FH		2 WI	DC	Bowler	380	157	75	45.62	65	35.6	0	4	3	4	80	0	154	5	30.8	6.6	28	2010	150000	150000
22	22 Fernando, ORD		2 SL	MI	Bowler	249	97	239	86.36	107	34.7	0	4	2	0	133.33	0	298	17	17.53	7.94	13.78	2008	150000	150000
23	23 Fleming, SP		3 NZ	CSK	Batsman	7172	0	8027	71.49	1	39	1	198	45	21.77	118.78	3	0	0	0	0	0	2008	350000	350000
24	24 Flintoff, A		2 ENG	CSK	Allrounder	3845	728	3194	88.81	169	51.2	1	62	34	31	158.98	2	905	2	57.5	9.55	32	2009	950000	1550000
25	25 Gambhir, G		2 IND	DD+	Batsman	6711	0	4929	69.17	0	0	1	2060	59	33.81	128.9	32	0	0	0	0	0	2008	220000	725000
26	26 Ganguly, SC		3 IND	KKR+	Batsman	7212	32	11263	73.7	100	45.6	1	1349	31	25.45	108.81	42	363	10	36.3	7.89	27.6	2011	200000	400000
27	27 Gayle, CH		2 WI	KKR+	Allrounder	6373	73	8007	83.95	158	44.4	1	1804	128	56.31	161.79	129	806	13	46.62	5.05	34.85	2008	350000	800000
28	28 Gibbs, HH		5 SA	DC	Batsman	6197	0	6894	83.28	0	0	1	698	60	27.95	109.75	21	0	0	0	0	0	2008	250000	575000
29	29 Gilchrist, AC		3 AUS	DC+	W. Keeper	5570	0	9623	96.94	0	0	1	1775	109	27.77	140.21	86	0	0	0	0	0	2008	300000	700000
30	30 Gony, MS		2 IND	CSK+	Bowler	0	0	0	0	2	39	0	54	15	9	117.39	5	999	10	33.3	6.47	23.6	2011	50000	750000
31	31 Harbhajan Singh		2 IND	MI	Bowler	2164	408	1190	69.51	269	46.3	1	430	49	16.54	131.41	22	1449	14	27.2	6.83	23.69	2008	250000	620000
32	32 Harris, RJ		2 AUS	DC+	Bowler	100	48	88	100	44	23.4	0	145	17	16.43	167.48	1	975	44	32.18	7.71	17.27	2011	200000	325000
33	33 Hayden, ML		3 AUS	CSK	Batsman	8625	0	6139	75.98	0	0	0	1107	93	36.9	137.52	44	0	0	0	0	0	2008	325000	375000
34	34 Henderson, I		3 SA	RR	Allrounder	0	0	0	0	0	0	0	11	13	3.3	68.75	1	40	1	40	6.66	18	2009	100000	600000
35	35 Henriques, MC		1 AUS	KKR+	Allrounder	0	0	18	60	1	30	0	49	30	16.33	108.89	1	142	3	47.33	8.82	32.33	2011	50000	50000
36	36 Hodge, BJ		3 AUS	KKR+	Batsman	303	0	575	87.51	1	66	0	1006	73	31.44	121.3	28	301	17	17.65					
37	37 Hogg, JR		2 AUS	KXIP	Allrounder	0	0	1128	93.71	67	47.1	0	417	71	26.06	118.27	11	349	14	39.14					
38	38 [illegible]		1 AUS	KKR+	Allrounder	0	0	[illegible]	[illegible]	[illegible]	[illegible]	0	971	71	[illegible]	[illegible]	[illegible]	185	4	57.5					

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SUDHARMA KAMALAKAR POTLY

BITS Pilani

	PLAYING ROLE	T-RUNS	T-WKTS	ODI-RUNS	ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAIN	RUNS-S	HS	AVE	SR-B	SIXERS	RUNS-C	WKTS	AVE-BL	ECON	SR-BL	AUCTION
2	Allrounder	0	0	0	0	0	0	0	0	0	0	0	0	307	15	20.47	8.9	13.93	200
3	Bowler	214	18	657	71.41	185	37.6	0	0	0	0	0	0	29	0	0	14.5	0	200
4	Bowler	571	58	1269	80.62	288	32.9	0	167	39	18.56	121.01	5	1059	29	36.52	8.81	24.9	200
5	Bowler	284	31	241	84.56	51	36.8	0	58	11	5.8	76.32	0	1125	49	22.96	6.23	22.14	201
6	Batsman	63	0	79	45.93	0	0	0	1317	71	32.93	120.71	28	0	0	0	0	0	201
7	Batsman	0	0	172	77.26	0	0	1	63	48	21	95.45	0	0	0	0	0	0	200
8	Bowler	51	27	120	78.94	34	42.5	0	26	15	4.33	72.22	1	1342	52	25.81	7.98	19.4	201
9	Bowler	54	50	50	92.59	62	31.3	0	21	16	21	165.88	1	693	37	18.73	7.22	15.57	201
10	Allrounder	83	17	609	85.77	72	53	1	335	67	30.45	114.73	3	610	19	32.11	6.85	28.11	201
11	W. Keeper	5515	1	4686	84.76	0	0	1	394	50	28.14	127.51	13	0	0	0	0	0	200
12	Allrounder	2200	86	2004	81.39	142	34.1	0	839	70	27.97	127.12	38	1338	47	28.47	8.12	21.11	201
13	Batsman	9918	9	8778	70.74	14	52.8	1	25	16	8.33	80.64	0	0	0	0	0	0	200
14	Allrounder	5	3	38	65.51	32	41	0	337	24	13.48	113.09	9	1819	73	126.3	38.11	100.2	200
15	W. Keeper	5457	2	4998	93.19	0	0	1	1302	105	34.26	128.53	42	0	0	0	0	0	200
16	Batsman	0	0	69	56.09	0	0	0	1540	95	31.43	122.32	36	66	4	16.5	8.25	12	201
17	W. Keeper	3509	0	6773	88.19	1	12	1	1782	70	37.13	136.45	64	0	0	0	0	0	200
18	Allrounder	4722	32	6455	86.8	67	58.3	1	1077	76	28.34	117.83	24	356	5	71.2	8.07	53	200
19	Bowler	0	0	18	60	5	61.4	0	6	2	1	33.33	0	976	36	25.22	7.29	21.19	201
20	Batsman	13288	1	10889	71.24	4	46.5	1	1703	75	27.92	116.88	23	0	0	0	0	0	201
21	Batsman	654	11	2536	84	25	47.6	0	978	74	36.22	119.27	35	377	10	37.7	7.11	31.8	200
22	Bowler	380	157	73	45.62	60	35.6	0	4	3	4	80	0	154	5	30.8	6.6	28	200
23	Bowler	249	97	239	60.96	187	34.7	0	4	2	0	133.33	0	298	17	17.53	7.64	13.76	200
24	Batsman	7172	0	8037	71.49	1	29	1	196	45	21.77	118.78	3	0	0	0	0	0	200
25	Allrounder	3845	226	1394	88.82	169	33.2	1	62	24	31	116.98	2	105	2	[illegible]	[illegible]	[illegible]	[illegible]
26	Batsman	3712	0	4819	86.17	0	0	1	2065	93	33.31	128.9	32	0	0				

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PLAYING ROLE	T-RUNS	T-WKTS	ODI-RUNS	ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAINC	RUNS-S	HS	AVE	SR-B	SIXERS	RUNS-C	WKTS	AVE-BL	ECON
Allrounder	0	0	0	0	0	0	0	0	0	0	0	0	307	15	20.47	8.9
Bowler	214	18	657	71.41	185	37.6	0	0	0	0	0	0	29	0	0	14.5
Bowler	571	58	1269	80.62	288	32.9	0	167	39	18.56	121.01	5	1059	29	36.52	8.81
Bowler	284	31	241	84.56	51	36.8	0	58	11	5.8	76.32	0	1125	49	22.96	6.23
Batsman	63	0	79	45.93	0	0	0	1317	71	32.93	120.71	28	0	0	0	0
Batsman	0	0	172	72.26	0	0	1	63	48	21	95.45	0	0	0	0	0
Bowler	51	27	120	78.94	34	42.5	0	26	15	4.33	72.22	1	1342	52	25.81	7.98
Bowler	54	50	50	92.59	62	31.3	0	21	16	21	165.88	1	693	37	18.73	7.22
Allrounder	83	17	609	85.77	72	53	1	335	67	30.45	114.73	3	610	19	32.11	6.85
W. Keeper	5515	1	4686	84.76	0	0	1	394	50	28.14	127.51	13	0	0	0	0
Allrounder	2200	86	2004	81.39	142	34.1	0	839	70	27.97	127.12	38	1338	47	28.47	8.12
Batsman	9918	9	8778	70.74	14	52.8	1	25	16	8.33	80.64	0	0	0	0	0
Allrounder	5	3	38	65.51	32	41	0	337	24	13.48	113.09	9	1819	73	126.3	38.11
W. Keeper	5457	2	4998	93.19	0	0	1	1302	105	34.26	128.53	42	0	0	0	0
Batsman	0	0	69	56.09	0	0	0	1540	95	31.43	122.32	36	66	4	16.5	8.25
W. Keeper	3509	0	6773	88.19	1	12	1	1782	70	37.13	136.45	64	0	0	0	0
Allrounder	4722	32	6455	86.8	67	58.3	1	1077	76	28.34	117.83	24	356	5	71.2	8.07
Bowler	0	0	18	60	5	61.4	0	6	2	1	33.33	0	926	36	25.72	7.29
Batsman	13288	1	10889	71.24	4	46.5	1	1703	75	27.92	116.88	23	0	0	0	0
Batsman	654	11	2536	84	25	47.6	0	978	74	36.22	119.27	35	377	10	37.7	7.11
Bowler	380	157	73	45.62	60	35.6	0	4	3	4	80	0	154	5	30.8	6.6
Bowler	249	97	239	60.96	187	34.7	0	4	2	0	133.33	0	29			
Batsman	7172	0	8037	71.49	1	29	1	196	45	21.77	118.78	3				

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SI.NO.	PLAYER NAME	AGE	COUNTRY	TEAM	PLAYING ROLE	T-RUNS	T-WKTS	ODI-RUNS-	ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAINC'	RUNS-S	HS	AVE
1	Abdulla, YA	2	SA	KXIP	Allrounder	0	0	0	0	0	0	0	0	0	
2	Abdur Razzak	2	BAN	RCB	Bowler	214	18	657	71.41	185	37.6	0	0	0	
3	Agarkar, AB	2	IND	KKR	Bowler	571	58	1269	80.62	288	32.9	0	167	39	
4	Ashwin, R	1	IND	CSK	Bowler	284	31	241	84.56	51	36.8	0	58	11	
5	Badrinath, S	2	IND	CSK	Batsman	63	0	79	45.93	0	0	0	1317	71	
6	Bailey, GJ	2	AUS	CSK	Batsman	0	0	172	72.26	0	0	1	63	48	
7	Balaji, L	2	IND	CSK+	Bowler	51	27	120	78.94	34	42.5	0	26	15	
8	Bollinger, DE	2	AUS	CSK	Bowler	54	50	50	92.59	62	31.3	0	21	16	
9	Botha, J	2	SA	RR	Allrounder	83	17	609	85.77	72	53	1	335	67	
10	Boucher, MV	2	SA	RCB+	W. Keeper	5515	1	4686	84.76	0	0	1	394	50	
11	Bravo, DJ	2	WI	MI+	Allrounder	2200	86	2004	81.39	142	34.1	0	839	70	
12	Chanderpaul, S	3	WI	RCB	Batsman	9918	9	8778	70.74	14	52.8	1	25	16	
13	Chawla, PP	1	IND	KXIP	Allrounder	5	3	38	65.51	32	41	0	337	24	
14	de Villiers, AB	2	SA	DD+	W. Keeper	5457	2	4998	93.19	0	0	1	1302	105	
15	Dhawan, S	2	IND	MI+	Batsman	0	0	69	56.09	0	0	0	1540	95	
16	Dhoni, MS	2	IND	CSK	W. Keeper	3509	0	6773	88.19	1	12	1	1782	70	
17	Dilshan, TM	2	SL	DD+	Allrounder	4722	32	6455	86.8	67	58.3	1	1077	76	
18	Dinda, AB	2	IND	KKR+	Bowler	0	0	18	60	5	61.4	0	6	2	
19	Dravid, RS	3	IND	RCB+	Batsman	13288	1	10889	71.24	4	46.5	1	1703	75	
20	Duminy, J-P	2	SA	MI+	Batsman	654	11	2536	84	25	47.6	0	978	74	
21	Edwards, FH	2	WI	DC	Bowler	380	157	73	45.62	60	35.6	0	4	3	
22	Fernando, CRD	2	SL	MI	Bowler	249	97	239	60.96	187	34.7				
23	Fleming, SP	3	NZ	CSK	Batsman	7172	0	8037	71.49	1	29				

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AGE	COUNTRY	TEAM	PLAYING ROLE	T-RUNS	T-WKTS	ODI-RUNS	ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAINC	RUNS-S	HS	AVE	SR-B	SIXERS	RUNS-(
2	SA	KXIP	Allrounder	0	0	0	0	0	0	0	0	0	0	0	0	5
2	BAN	RCB	Bowler	214	18	657	71.41	185	37.6	0	0	0	0	0	0	
2	IND	KKR	Bowler	571	58	1269	80.62	288	32.9	0	167	39	18.56	121.01	5	10
1	IND	CSK	Bowler	284	31	241	84.56	51	36.8	0	58	11	5.8	76.32	0	1
2	IND	CSK	Batsman	63	0	79	45.93	0	0	0	1317	71	32.93	120.71	28	
2	AUS	CSK	Batsman	0	0	172	72.26	0	0	1	63	48	21	95.45	0	
2	IND	CSK+	Bowler	51	27	120	78.94	34	42.5	0	26	15	4.33	72.22	1	1
2	AUS	CSK	Bowler	54	50	50	92.59	62	31.3	0	21	16	21	165.88	1	6
2	SA	RR	Allrounder	83	17	609	85.77	72	53	1	335	67	30.45	114.73	3	6
2	SA	RCB+	W. Keeper	5515	1	4686	84.76	0	0	1	394	50	28.14	127.51	13	
2	WI	MI+	Allrounder	2200	86	2004	81.39	142	34.1	0	839	70	27.97	127.12	38	1
3	WI	RCB	Batsman	9918	9	8778	70.74	14	52.8	1	25	16	8.33	80.64	0	
1	IND	KXIP	Allrounder	5	3	38	65.51	32	41	0	337	24	13.48	113.09	9	1
2	SA	DD+	W. Keeper	5457	2	4998	93.19	0	0	1	1302	105	34.26	128.53	42	
2	IND	MI+	Batsman	0	0	69	56.09	0	0	0	1540	95	31.43	122.32	36	
2	IND	CSK	W. Keeper	3909	0	6773	88.19	1	12	1	1782	70	37.13	136.45	64	
2	SL	DD+	Allrounder	4722	32	6455	86.8	67	58.3	1	1077	76	28.34	117.83	24	
2	IND	KKR+	Bowler	0	0	18	60	5	61.4	0	6	2	1	33.33	0	5
3	IND	RCB+	Batsman	13288	1	10889	71.24	4	46.5	1	1703	75	27.92	116.88	23	
2	SA	MI+	Batsman	654	11	2536	84	25	47.6	0	978	74	36.22	119.27	35	
2	WI	DC	Bowler	380	157	73	45.62	60	35.6	0	4	3	4	80	0	
2	SL	MI	Bowler	249	97	239	60.96	187	34.7	0	4	2	0	133.33	0	
3	NZ	CSK	Batsman	7172	0	8037	71.49	1	29	1	196	45	21.77	118.78	3	

	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	COUNTRY	TEAM	PLAYING ROLE	T-RUNS	T-WKTS	ODI-RUNS	ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAIN	RUNS-S	HS	AVE	SR-B	SIXERS	RUNS-C	WKTS
2	SA	KXIP	Allrounder	0	0	0	0	0	0	0	0	0	0	0	0	307	
3	BAN	RCB	Bowler	214	18	657	71.41	185	37.6	0	0	0	0	0	0	29	
4	IND	KKR	Bowler	571	58	1269	80.62	288	32.9	0	167	39	18.56	121.01	5	1059	
5	IND	CSK	Bowler	284	31	241	84.56	51	36.8	0	58	11	5.8	76.32	0	1125	
6	IND	CSK	Batsman	63	0	79	45.93	0	0	0	1317	71	32.93	120.71	28	0	
7	AUS	CSK	Batsman	0	0	172	72.26	0	0	1	63	48	21	95.45	0	0	
8	IND	CSK+	Bowler	51	27	120	78.94	34	42.5	0	26	15	4.33	72.22	1	1342	
9	AUS	CSK	Bowler	54	50	50	92.59	62	31.3	0	21	16	21	165.88	1	693	
10	SA	RR	Allrounder	83	17	609	85.77	72	53	1	335	67	30.45	114.73	3	610	
11	SA	RCB+	W. Keeper	5515	1	4686	84.76	0	0	1	394	50	28.14	127.51	13	0	
12	WI	MI+	Allrounder	2200	86	2004	81.39	142	34.1	0	839	70	27.97	127.12	38	1338	
13	WI	RCB	Batsman	9918	9	8778	70.74	14	52.8	1	25	16	8.33	80.64	0	0	
14	IND	KXIP	Allrounder	5	3	38	65.51	32	41	0	337	24	13.48	113.09	9	1819	
15	SA	DD+	W. Keeper	5457	2	4998	93.19	0	0	1	1302	105	34.26	128.53	42	0	
16	IND	MI+	Batsman	0	0	69	56.09	0	0	0	1540	95	31.43	122.32	36	66	
17	IND	CSK	W. Keeper	3509	0	6773	88.19	1	12	1	1782	70	37.13	136.45	64	0	
18	SL	DD+	Allrounder	4722	32	6455	86.8	67	58.3	1	1077	76	28.34	117.83	24	356	
19	IND	KKR+	Bowler	0	0	18	60	5	61.4	0	6	2	1	33.33	0	926	
20	IND	RCB+	Batsman	13288	1	10889	71.24	4	46.5	1	1703	75	27.92	116.88	23	0	
21	SA	MI+	Batsman	654	11	2536	84	25	47.6	0	978	74	36.22	119.27	35	377	
22	WI	DC	Bowler	380	157	73	45.62	60	35.6	0	4	3	4	80	0	154	
23	SL	MI	Bowler	249	97	239	60.96	187	34.7	0	4	2	0	133.33	0	298	
24	NZ	CSK	Batsman	7172	0	8037	71.49	1	29	1	196	45	21.77	118.78	3	0	

G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
T-RUNS	T-WKTS	ODI-RUNS	ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAINC	RUNS-S	HS	AVE	SR-B	SIXERS	RUNS-C	WKTS	AVE-BL	ECON	SR-BL	AUCTION YEAR
0	0	0	0	0	0	0	0	0	0	0	0	307	15	20.47	8.9	13.93	2009
214	18	657	71.41	185	37.6	0	0	0	0	0	0	29	0	0	14.5	0	2008
571	58	1269	80.62	288	32.9	0	167	39	18.56	121.01	5	1059	29	36.52	8.81	24.9	2008
284	31	241	84.56	51	36.8	0	58	11	5.8	76.32	0	1125	49	22.96	6.23	22.14	2011
63	0	79	45.93	0	0	0	1317	71	32.93	120.71	28	0	0	0	0	0	2011
0	0	172	72.26	0	0	1	63	48	21	95.45	0	0	0	0	0	0	2009
51	27	120	78.94	34	42.5	0	26	15	4.33	72.22	1	1342	52	25.81	7.98	19.4	2011
54	50	50	92.59	62	31.3	0	21	16	21	165.88	1	693	37	18.73	7.22	15.57	2011
83	17	609	85.77	72	53	1	335	67	30.45	114.73	3	610	19	32.11	6.85	28.11	2011
5515	1	4686	84.76	0	0	1	394	50	28.14	127.51	13	0	0	0	0	0	2008
2200	86	2004	81.39	142	34.1	0	839	70	27.97	127.12	38	1338	47	28.47	8.12	21.11	2011
9918	9	8778	70.74	14	52.8	1	25	16	8.33	80.64	0	0	0	0	0	0	2008
5	3	38	65.51	32	41	0	337	24	13.48	113.09	9	1819	73	126.3	38.11	100.2	2008
5457	2	4998	93.19	0	0	1	1302	105	34.26	128.53	42	0	0	0	0	0	2008
0	0	69	56.09	0	0	0	1540	95	31.43	122.32	36	66	4	16.5	8.25	12	2011
3509	0	6773	88.19	1	12	1	1782	70	37.13	136.45	64	0	0	0	0	0	2008
4722	32	6455	86.8	67	58.3	1	1077	76	28.34	117.83	24	356	5	71.2	8.07	53	2008
0	0	18	60	5	61.4	0	6	2	1	33.33	0	926	36	25.72	7.29	21.19	2011
13288	1	10889	71.24	4	46.5	1	1703	75	27.92	116.88	23	0	0	0	0	0	2011
654	11	2536	84	25	47.6	0	978	74	36.22	119.27	35	377	10	37.7	7.11	31.8	2009
380	157	73	45.62	60	35.6	0	4	3	4	80	0	154	5	30.8	6.6	28	2009
249	97	239	60.96	187	34.7	0	4	2	0	133.33	0	298	17	17.53	7.64	13.76	2008
7172	0	8037	71.49	1	29	1	196	45	21.77	118.78	3	0	0	0	0	0	2008

H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
T-WKTS	ODI-RUNS	ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAINC	RUNS-S	HS	AVE	SR-B	SIXERS	RUNS-C	WKTS	AVE-BL	ECON	SR-BL	AUCTION Y	BASE PRICI
0	0	0	0	0	0	0	0	0	0	0	307	15	20.47	8.9	13.93	2009	50000
18	657	71.41	185	37.6	0	0	0	0	0	0	29	0	0	14.5	0	2008	50000
58	1269	80.62	288	32.9	0	167	39	18.56	121.01	5	1059	29	36.52	8.81	24.9	2008	200000
31	241	84.56	51	36.8	0	58	11	5.8	76.32	0	1125	49	22.96	6.23	22.14	2011	100000
0	79	45.93	0	0	0	1317	71	32.93	120.71	28	0	0	0	0	0	2011	100000
0	172	72.26	0	0	1	63	48	21	95.45	0	0	0	0	0	0	2009	50000
27	120	78.94	34	42.5	0	26	15	4.33	72.22	1	1342	52	25.81	7.98	19.4	2011	100000
50	50	92.59	62	31.3	0	21	16	21	165.88	1	693	37	18.73	7.22	15.57	2011	200000
17	609	85.77	72	53	1	335	67	30.45	114.73	3	610	19	32.11	6.85	28.11	2011	200000
1	4686	84.76	0	0	1	394	50	28.14	127.51	13	0	0	0	0	0	2008	200000
86	2004	81.39	142	34.1	0	839	70	27.97	127.12	38	1338	47	28.47	8.12	21.11	2011	200000
9	8778	70.74	14	52.8	1	25	16	8.33	80.64	0	0	0	0	0	0	2008	200000
3	38	65.51	32	41	0	337	24	13.48	113.09	9	1819	73	126.3	38.11	100.2	2008	125000
2	4998	93.19	0	0	1	1302	105	34.26	128.53	42	0	0	0	0	0	2008	200000
0	69	56.09	0	0	0	1540	95	31.43	122.32	36	66	4	16.5	8.25	12	2011	100000
0	6773	88.19	1	12	1	1782	70	37.13	136.45	64	0	0	0	0	0	2008	400000
32	6455	86.8	67	58.3	1	1077	76	28.34	117.83	24	356	5	71.2	8.07	53	2008	150000
0	18	60	5	61.4	0	6	2	1	33.33	0	926	36	25.72	7.29	21.19	2011	100000
1	10889	71.24	4	46.5	1	1703	75	27.92	116.88	23	0	0	0	0	0	2011	400000
11	2536	84	25	47.6	0	978	74	36.22	119.27	35	377	10	37.7	7.11	31.8	2009	300000
157	73	45.62	60	35.6	0	4	3	4	80	0	154	5	30.8	6.6	28	2009	150000
97	239	60.96	187	34.7	0	4	2	0	133.33	0	298	17	17.53	7.64	13.76	2008	150000
0	8037	71.49	1	29	1	196	45	21.77	118.78	3	0	0	0	0	0	2008	350000

J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAINC	RUNS-S	HS	AVE	SR-B	SIXERS	RUNS-C	WKTS	AVE-BL	ECON	SR-BL	AUCTION \	BASE PRIC	SOLD PRICE	
0	0	0	0	0	0	0	0	0	307	15	20.47	8.9	13.93	2009	50000	50000	
71.41	185	37.6	0	0	0	0	0	0	29	0	0	14.5	0	2008	50000	50000	
80.62	288	32.9	0	167	39	18.56	121.01	5	1059	29	36.52	8.81	24.9	2008	200000	350000	
84.56	51	36.8	0	58	11	5.8	76.32	0	1125	49	22.96	6.23	22.14	2011	100000	850000	
45.93	0	0	0	1317	71	32.93	120.71	28	0	0	0	0	0	2011	100000	800000	
72.26	0	0	1	63	48	21	95.45	0	0	0	0	0	0	2009	50000	50000	
78.94	34	42.5	0	26	15	4.33	72.22	1	1342	52	25.81	7.98	19.4	2011	100000	500000	
92.59	62	31.3	0	21	16	21	165.88	1	693	37	18.73	7.22	15.57	2011	200000	700000	
85.77	72	53	1	335	67	30.45	114.73	3	610	19	32.11	6.85	28.11	2011	200000	950000	
84.76	0	0	1	394	50	28.14	127.51	13	0	0	0	0	0	2008	200000	450000	
81.39	142	34.1	0	839	70	27.97	127.12	38	1338	47	28.47	8.12	21.11	2011	200000	200000	
70.74	14	52.8	1	25	16	8.33	80.64	0	0	0	0	0	0	2008	200000	200000	
65.51	32	41	0	337	24	13.48	113.09	9	1819	73	126.3	38.11	100.2	2008	125000	400000	
93.19	0	0	1	1302	105	34.26	128.53	42	0	0	0	0	0	2008	200000	300000	
56.09	0	0	0	1540	95	31.43	122.32	36	66	4	16.5	8.25	12	2011	100000	300000	
88.19	1	12	1	1782	70	37.13	136.45	64	0	0	0	0	0	2008	400000	1500000	
86.8	67	58.3	1	1077	76	28.34	117.83	24	356	5	71.2	8.07	53	2008	150000	250000	
60	5	61.4	0	6	2	1	33.33	0	926	36	25.72	7.29	21.19	2011	100000	375000	
71.24	4	46.5	1	1703	75	27.92	116.88	23	0	0	0	0	0	2011	400000	500000	
84	25	47.6	0	978	74	36.22	119.27	35	377	10	37.7	7.11	31.8	2009	300000	300000	
45.62	60	35.6	0	4	3	4	80	0	154	5	30.8	6.6	28	2009	150000	150000	
60.96	187	34.7	0	4	2	0	133.33	0	298	17	17.53	7.64	13.76	2008	150000	150000	
71.49	1	29	1	196	45	21.77	118.78	3	0	0	0	0	0	2008	350000	350000	

ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAINC	RUNS-S	HS	AVE	SR-B	SIXERS	RUNS-C	WKTS	AVE-BL	ECON	SR-BL	AUCTION Y	BASE PRICE	SOLD PRICE
0	0	0	0	0	0	0	0	0	307	15	20.47	8.9	13.93	2009	50000	50000
71.41	185	37.6	0	0	0	0	0	0	29	0	0	14.5	0	2008	50000	50000
80.62	288	32.9	0	167	39	18.56	121.01	5	1059	29	36.52	8.81	24.9	2008	200000	350000
84.56	51	36.8	0	58	11	5.8	76.32	0	1125	49	22.96	6.23	22.14	2011	100000	850000
45.93	0	0	0	1317	71	32.93	120.71	28	0	0	0	0	0	2011	100000	800000
72.26	0	0	1	63	48	21	95.45	0	0	0	0	0	0	2009	50000	50000
78.94	34	42.5	0	26	15	4.33	72.22	1	1342	52	25.81	7.98	19.4	2011	100000	500000
92.59	62	31.3	0	21	16	21	165.88	1	693	37	18.73	7.22	15.57	2011	200000	700000
85.77	72	53	1	335	67	30.45	114.73	3	610	19	32.11	6.85	28.11	2011	200000	950000
84.76	0	0	1	394	50	28.14	127.51	13	0	0	0	0	0	2008	200000	450000
81.39	142	34.1	0	839	70	27.97	127.12	38	1338	47	28.47	8.12	21.11	2011	200000	200000
70.74	14	52.8	1	25	16	8.33	80.64	0	0	0	0	0	0	2008	200000	200000
65.51	32	41	0	337	24	13.48	113.09	9	1819	73	126.3	38.11	100.2	2008	125000	400000
93.19	0	0	1	1302	105	34.26	128.53	42	0	0	0	0	0	2008	200000	300000
56.09	0	0	0	1540	95	31.43	122.32	36	66	4	16.5	8.25	12	2011	100000	300000
88.19	1	12	1	1782	70	37.13	136.45	64	0	0	0	0	0	2008	400000	1500000
86.8	67	58.3	1	1077	76	28.34	117.83	24	356	5	71.2	8.07	53	2008	150000	250000
60	5	61.4	0	6	2	1	33.33	0	926	36	25.72	7.29	21.19	2011	100000	375000
71.24	4	46.5	1	1703	75	27.92	116.88	23	0	0	0	0	0	2011	400000	500000
84	25	47.6	0	978	74	36.22	119.27	35	377	10	37.7	7.11	31.8	2009	300000	300000
45.62	60	35.6	0	4	3	4	80	0	154	5	30.8	6.6	28	2009	150000	150000
60.96	187	34.7	0	4	2	0	133.33	0	298	17	17.53	7.64	13.76	2008	150000	150000
71.49	1	29	1	196	45	21.77	118.78	3	0	0	0	0	0	2008	350000	350000

J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
SR-B	ODI-WKTS	ODI-SR-BL	CAPTAINC	RUNS-S	HS	AVE	SR-B	SIXERS	RUNS-C	WKTS	AVE-BL	ECON	SR-BL	AUCTION \	BASE PRICE	SOLD PRICE
0	0	0	0	0	0	0	0	0	307	15	20.47	8.9	13.93	2009	50000	50000
71.41	185	37.6	0	0	0	0	0	0	29	0	0	14.5	0	2008	50000	50000
80.62	288	32.9	0	167	39	18.56	121.01	5	1059	29	36.52	8.81	24.9	2008	200000	350000
84.56	51	36.8	0	58	11	5.8	76.32	0	1125	49	22.96	6.23	22.14	2011	100000	850000
45.93	0	0	0	1317	71	32.93	120.71	28	0	0	0	0	0	2011	100000	800000
72.26	0	0	1	63	48	21	95.45	0	0	0	0	0	0	2009	50000	50000
78.94	34	42.5	0	26	15	4.33	72.22	1	1342	52	25.81	7.98	19.4	2011	100000	500000
92.59	62	31.3	0	21	16	21	165.88	1	693	37	18.73	7.22	15.57	2011	200000	700000
85.77	72	53	1	335	67	30.45	114.73	3	610	19	32.11	6.85	28.11	2011	200000	950000
84.76	0	0	1	394	50	28.14	127.51	13	0	0	0	0	0	2008	200000	450000
81.39	142	34.1	0	839	70	27.97	127.12	38	1338	47	28.47	8.12	21.11	2011	200000	200000
70.74	14	52.8	1	25	16	8.33	80.64	0	0	0	0	0	0	2008	200000	200000
65.51	32	41	0	337	24	13.48	113.09	9	1819	73	126.3	38.11	100.2	2008	125000	400000
93.19	0	0	1	1302	105	34.26	128.53	42	0	0	0	0	0	2008	200000	300000
56.09	0	0	0	1540	95	31.43	122.32	36	66	4	16.5	8.25	12	2011	100000	300000
88.19	1	12	1	1782	70	37.13	136.45	64	0	0	0	0	0	2008	400000	1500000
86.8	67	58.3	1	1077	76	28.34	117.83	24	356	5	71.2	8.07	53	2008	150000	250000
60	5	61.4	0	6	2	1	33.33	0	926	36	25.72	7.29	21.19	2011	100000	375000
71.24	4	46.5	1	1703	75	27.92	116.88	23	0	0	0	0	0	2011	400000	500000
84	25	47.6	0	978	74	36.22	119.27	35	377	10	37.7	7.11	31.8	2009	300000	300000
45.62	60	35.6	0	4	3	4	80	0	154	5	30.8	6.6	28	2009	150000	150000
60.96	187	34.7	0	4	2	0	133.33	0	298	17	17.53	7.64	13.76	2008	150000	150000
71.49	1	29	1	196	45	21.77	118.78	3	0	0	0	0	0	2008	350000	350000

L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
ODI-SR-BL	CAPTAINC	RUNS-S	HS	AVE	SR-B	SIXERS	RUNS-C	WKTS	AVE-BL	ECON	SR-BL	AUCTION \	BASE PRICE	SOLD PRICE		
0	0	0	0	0	0	0	307	15	20.47	8.9	13.93	2009	50000	50000		
37.6	0	0	0	0	0	0	29	0	0	14.5	0	2008	50000	50000		
32.9	0	167	39	18.56	121.01	5	1059	29	36.52	8.81	24.9	2008	200000	350000		
36.8	0	58	11	5.8	76.32	0	1125	49	22.96	6.23	22.14	2011	100000	850000		
0	0	1317	71	32.93	120.71	28	0	0	0	0	0	2011	100000	800000		
0	1	63	48	21	95.45	0	0	0	0	0	0	2009	50000	50000		
42.5	0	26	15	4.33	72.22	1	1342	52	25.81	7.98	19.4	2011	100000	500000		
31.3	0	21	16	21	165.88	1	693	37	18.73	7.22	15.57	2011	200000	700000		
53	1	335	67	30.45	114.73	3	610	19	32.11	6.85	28.11	2011	200000	950000		
0	1	394	50	28.14	127.51	13	0	0	0	0	0	2008	200000	450000		
34.1	0	839	70	27.97	127.12	38	1338	47	28.47	8.12	21.11	2011	200000	200000		
52.8	1	25	16	8.33	80.64	0	0	0	0	0	0	2008	200000	200000		
41	0	337	24	13.48	113.09	9	1819	73	126.3	38.11	100.2	2008	125000	400000		
0	1	1302	105	34.26	128.53	42	0	0	0	0	0	2008	200000	300000		
0	0	1540	95	31.43	122.32	36	66	4	16.5	8.25	12	2011	100000	300000		
12	1	1782	70	37.13	136.45	64	0	0	0	0	0	2008	400000	1500000		
58.3	1	1077	76	28.34	117.83	24	356	5	71.2	8.07	53	2008	150000	250000		
61.4	0	6	2	1	33.33	0	926	36	25.72	7.29	21.19	2011	100000	375000		
46.5	1	1703	75	27.92	116.88	23	0	0	0	0	0	2011	400000	500000		
47.6	0	978	74	36.22	119.27	35	377	10	37.7	7.11	31.8	2009	300000	300000		
35.6	0	4	3	4	80	0	154	5	30.8	6.6	28	2009	150000	150000		
34.7	0	4	2	0	133.33	0	298	17	17.53	7.64	13.76	2008	150000	150000		
29	1	196	45	21.77	118.78	3	0	0	0	0	0	2008	350000	350000		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
21		20 Duminy, J-P		2 SA	MI+	Batsman	654	11	2556	64	25	47.6	0	978	74
22		21 Edwards, FH		2 WI	DC	Bowler	380	157	73	45.62	60	35.6	0	4	3
23		22 Fernando, CRD		2 SL	MI	Bowler	249	97	239	60.96	187	34.7	0	4	2
24		23 Fleming, SP		3 NZ	CSK	Batsman	7172	0	8037	71.49	1	29	1	196	45
25		24 Flintoff, A		2 ENG	CSK	Allrounder	3845	226	3394	88.82	169	33.2	1	62	24
26		25 Gambhir, G		2 IND	OD+	Batsman	3712	0	4819	86.17	0	0	1	2065	93
27		26 Ganguly, SC		3 IND	KKR+	Batsman	7212	32	11363	73.7	100	45.6	1	1349	91
28		27 Gayle, CH		2 WI	KXIP+	Allrounder	6373	72	8087	83.95	156	44.4	1	1804	128
29		28 Gibbs, HH		3 SA	DC	Batsman	6167	0	8094	83.26	0	0	1	886	69
30		29 Gilchrist, AC		3 AUS	DC+	W. Keeper	5570	0	9619	96.94	0	0	1	1775	109
31		30 Gony, MS		2 IND	CSK+	Bowler	0	0	0	0	2	39	0	54	15
32		31 Harbhajan Singh		2 IND	MI	Bowler	2164	406	1190	80.51	259	46.5	1	430	49
33		32 Harris, RJ		2 AUS	DC+	Bowler	199	46	48	100	44	23.4	0	115	17
34		33 Hayden, ML		3 AUS	CSK	Batsman	8625	0	6133	78.96	0	0	0	1107	93
35		34 Henderson, T		3 SA	RR	Allrounder	0	0	0	0	0	0	0	11	11
36		35 Henriques, MC		1 AUS	KKR+	Allrounder	0	0	18	60	1	90	0	49	30
37		36 Hodge, BJ		3 AUS	KKR+	Batsman	503	0	575	87.51	1	66	0	1006	73
38		37 Hopes, JR		2 AUS	KXIP	Allrounder	0	0	1326	93.71	67	47.1	0	417	71
39		38 Hussey, DJ		2 AUS	KKR+	Allrounder	0	0	1485	91.4	18	36.2	0	971	71
40		39 Hussey, MEK		3 AUS	CSK	Batsman	5708	7	5262	86.97	2	117	1	958	116
41		40 Jadeja, RA		1 IND	RR+	Allrounder	0	0	860	78.61	57	46.2	0	904	48
42		41 Jaffer, W		2 IND	RCB	Allrounder	1944	2	10	43.47	0	0	0	130	50
43		42 Jayasuriya, ST		3 SL	MI	Allrounder	6973	98	13430	91.21	323	46	1	768	114
44		43 Jayawardena, DPMD		2 SL	KXIP+	Batsman	10440	6	10596	78.08	7	83.1	1	1471	110

SI.NO.	PLAYER NAME	AGE	COUNTRY	TEAM	PLAYING ROLE	T-RUNS	T-WKTS	ODI-RUNS-	ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAINC'	RUNS-S	HS	AVE
1	Abdulla, YA	2	SA	KXIP	Allrounder	0	0	0	0	0	0	0	0	0	
2	Abdur Razzak	2	BAN	RCB	Bowler	214	18	657	71.41	185	37.6	0	0	0	
3	Agarkar, AB	2	IND	KKR	Bowler	571	58	1269	80.62	288	32.9	0	167	39	
4	Ashwin, R	1	IND	CSK	Bowler	284	31	241	84.56	51	36.8	0	58	11	
5	Badrinath, S	2	IND	CSK	Batsman	63	0	79	45.93	0	0	0	1317	71	
6	Bailey, GJ	2	AUS	CSK	Batsman	0	0	172	72.26	0	0	1	63	48	
7	Balaji, L	2	IND	CSK+	Bowler	51	27	120	78.94	34	42.5	0	26	15	
8	Bollinger, DE	2	AUS	CSK	Bowler	54	50	50	92.59	62	31.3	0	21	16	
9	Botha, J	2	SA	RR	Allrounder	83	17	609	85.77	72	53	1	335	67	
10	Boucher, MV	2	SA	RCB+	W. Keeper	5515	1	4686	84.76	0	0	1	394	50	
11	Bravo, DJ	2	WI	MI+	Allrounder	2200	86	2004	81.39	142	34.1	0	839	70	
12	Chanderpaul, S	3	WI	RCB	Batsman	9918	9	8778	70.74	14	52.8	1	25	16	
13	Chawla, PP	1	IND	KXIP	Allrounder	5	3	38	65.51	32	41	0	337	24	
14	de Villiers, AB	2	SA	DD+	W. Keeper	5457	2	4998	93.19	0	0	1	1302	105	
15	Dhawan, S	2	IND	MI+	Batsman	0	0	69	56.09	0	0	0	1540	95	
16	Dhoni, MS	2	IND	CSK	W. Keeper	3509	0	6773	88.19	1	12	1	1782	70	
17	Dilshan, TM	2	SL	DD+	Allrounder	4722	32	6455	86.8	67	58.3	1	1077	76	
18	Dinda, AB	2	IND	KKR+	Bowler	0	0	18	60	5	61.4	0	6	2	
19	Dravid, RS	3	IND	RCB+	Batsman	13288	1	10889	71.24	4	46.5	1	1703	75	
20	Duminy, J-P	2	SA	MI+	Batsman	654	11	2536	84	25	47.6	0	978	74	
21	Edwards, FH	2	WI	DC	Bowler	380	157	73	45.62	60	35.6	0	4	3	
22	Fernando, CRD	2	SL	MI	Bowler	249	97	239	60.96	187	34.7	0	4	2	
23	Fleming, SP	3	NZ	CSK	Batsman	7172	0	8037	71.49	1	29	1	196	45	

SI.NO.	PLAYER NAME	AGE	COUNTRY	TEAM	PLAYING ROLE	T-RUNS	T-WKTS	ODI-RUNS	ODI-SR-B	ODI-WKTS	ODI-SR-BL	CAPTAINC	RUNS-S	HS	AVE
1	Abdulla, YA	2	SA	KXIP	Allrounder	0	0	0	0	0	0	0	0	0	
2	Abdur Razzak	2	BAN	RCB	Bowler	214	18	657	71.41	185	37.6	0	0	0	
3	Agarkar, AB	2	IND	KKR	Bowler	571	58	1269	80.62	288	32.9	0	167	39	
4	Ashwin, R	1	IND	CSK	Bowler	284	31	241	84.56	51	36.8	0	58	11	
5	Badrinath, S	2	IND	CSK	Batsman	63	0	79	45.93	0	0	0	1317	71	
6	Bailey, GJ	2	AUS	CSK	Batsman	0	0	172	72.26	0	0	1	63	48	
7	Balaji, L	2	IND	CSK+	Bowler	51	27	120	78.94	34	42.5	0	26	15	
8	Bollinger, DE	2	AUS	CSK	Bowler	54	50	50	92.59	62	31.3	0	21	16	
9	Botha, J	2	SA	RR	Allrounder	83	17	609	85.77	72	53	1	335	67	
10	Boucher, MV	2	SA	RCB+	W. Keeper	5515	1	4686	84.76	0	0	1	394	50	
11	Bravo, DJ	2	WI	MI+	Allrounder	2200	86	2004	81.39	142	34.1	0	839	70	
12	Chanderpaul, S	3	WI	RCB	Batsman	9918	9	8778	70.74	14	52.8	1	25	16	
13	Chawla, PP	1	IND	KXIP	Allrounder	5	3	38	65.51	32	41	0	337	24	
14	de Villiers, AB	2	SA	DD+	W. Keeper	5457	2	4998	93.19	0	0	1	1302	105	
15	Dhawan, S	2	IND	MI+	Batsman	0	0	69	56.09	0	0	0	1540	95	
16	Dhoni, MS	2	IND	CSK	W. Keeper	3509	0	6773	88.19	1	12	1	1782	70	
17	Dilshan, TM	2	SL	DD+	Allrounder	4722	32	6455	86.8	67	58.3	1	1077	76	
18	Dinda, AB	2	IND	KKR+	Bowler	0	0	18	60	5	61.4	0	6	2	
19	Dravid, RS	3	IND	RCB+	Batsman	13288	1	10889	71.24	4	46.5	1	1703	75	
20	Duminy, J-P	2	SA	MI+	Batsman	654	11	2536	84	25	47.6	0	978	74	
21	Edwards, FH	2	WI	DC	Bowler	380	157	73	45.62	60	35.6	0	[illegible]	[illegible]	
22	Fernando, CRD	2	SL	MI	Bowler	249	97	239	60.96	187	34.7	[illegible]	[illegible]	[illegible]	
23	Fleming, SP	3	NZ	CSK	Batsman	7172	0	8037	71.49	1	29	[illegible]	[illegible]	[illegible]	

SUMIT MATHUR
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Thanks

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In [ ]:

GEETHA V

BITS Pilani

jupyter Untitled1 Last Checkpoint: 5 minutes ago (unsaved changes)

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Run Code

Analyzing IPL Auction Data

In [1]:
```
import numpy as np
import pandas as pd
```

```
    Character to recognize as decimal point (e.g. use ","  for European data).
lineterminator : str (length 1), optional
    Character to break file into lines. Only valid with C parser.
quotechar : str (length 1), optional
    The character used to denote the start and end of a quoted item. Quoted
    items can include the delimiter and it will be ignored.
quoting : int or csv.QUOTE_* instance, default 0
    Control field quoting behavior per ``csv.QUOTE_*`` constants. Use one of
    QUOTE_MINIMAL (0), QUOTE_ALL (1), QUOTE_NONNUMERIC (2) or QUOTE_NONE (3).
doublequote : bool, default `True`
   When quotechar is specified and quoting is not ``QUOTE_NONE``, indicate
   whether or not to interpret two consecutive quotechar elements INSIDE a
   field as a single ``quotechar`` element.
escapechar : str (length 1), optional
    One-character string used to escape other characters.
    t : str, optional
```

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Run Code

Analyzing IPL Auction Data

In [1]:
```
import numpy as np
import pandas as pd
```

```
skipinitialspace : bool, default False
    Skip spaces after delimiter.
skiprows : list-like, int or callable, optional
    Line numbers to skip (0-indexed) or number of lines to skip (int)
    at the start of the file.

    If callable, the callable function will be evaluated against the row
    indices, returning True if the row should be skipped and False otherwise.
    An example of a valid callable argument would be ``lambda x: x in [0, 2]``.
skipfooter : int, default 0
    Number of lines at bottom of file to skip (Unsupported with engine='c').
nrows : int, optional
    Number of rows of file to read. Useful for reading pieces of large files.
na_values : scalar, str, list-like, or dict, optional
    Additional strings to recognize as NA/NaN. If dict passed, specific
```

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Run Code

```
# Type pd.read_ and then press tab key
pd.read_
```

In [5]:
```
pd.read_csv?
```

In [6]:
```
ipl_auc_df = pd.read_csv('IPL IMB381IPL2013.csv')

type(ipl_auc_df)
```

Out[6]:
```
pandas.core.frame.DataFrame
```

In [7]:
```
ipl_acu_df
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-7-dfd8d14edfb9> in <module>
----> 1 ipl_acu_df

NameError: name 'ipl_acu_df' is not defined
```

In [ ]:

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File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

126	127	Younis Khan	2	PAK	RR	Batsman	6398	7	6814	75.78	...	42.85	0	0	0	0	
127	128	Yuvraj Singh	2	IND	KXIP+	Batsman	1775	9	8051	87.58	...	131.88	67	569	23	2	
128	129	Zaheer Khan	2	IND	MI+	Bowler	1114	288	790	73.55	...	91.67	1	1783	65	2	
129	130	Zoysa, DNT	2	SL	DC	Bowler	288	64	343	95.81	...	122.22	0	99	2	4	

5 rows × 26 columns

In [11]:
```
ipl_auc_df.head().transpose()
```

Out[11]:

	0	1	2	3	4
Sl.NO.	1	2	3	4	5
PLAYER NAME	Abdulla, YA	Abdur Razzak	Agarkar, AB	Ashwin, R	Badrinath, S
AGE	2	2	2	1	2
COUNTRY	SA	BAN	IND	IND	IND
TEAM	KXIP	RCB	KKR	CSK	CSK
PLAYING ROLE	Allrounder	Bowler	Bowler	Bowler	Batsman

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Run Code

Finding Summary of the DataFrame

In [12]:
```
ipl_auc_df.columns
```

Out[12]:
```
Index(['Sl.NO.', 'PLAYER NAME', 'AGE', 'COUNTRY', 'TEAM', 'PLAYING ROLE',
       'T-RUNS', 'T-WKTS', 'ODI-RUNS-S', 'ODI-SR-B', 'ODI-WKTS', 'ODI-SR-BL',
       'CAPTAINCY EXP', 'RUNS-S', 'HS', 'AVE', 'SR-B', 'SIXERS', 'RUNS-C',
       'WKTS', 'AVE-BL', 'ECON', 'SR-BL', 'AUCTION YEAR', 'BASE PRICE',
       'SOLD PRICE'],
      dtype='object')
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

```
Out[12]: Index(['Sl.NO.', 'PLAYER NAME', 'AGE', 'COUNTRY', 'TEAM', 'PLAYING ROLE',
                'T-RUNS', 'T-WKTS', 'ODI-RUNS-S', 'ODI-SR-B', 'ODI-WKTS', 'ODI-SR-BL',
                'CAPTAINCY EXP', 'RUNS-S', 'HS', 'AVE', 'SR-B', 'SIXERS', 'RUNS-C',
                'WKTS', 'AVE-BL', 'ECON', 'SR-BL', 'AUCTION YEAR', 'BASE PRICE',
                'SOLD PRICE'],
               dtype='object')
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

In [13]:
```
ipl_auc_df.shape
```

Out[13]: (130, 26)

In [14]:
```
ipl_auc_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 130 entries, 0 to 129
Data columns (total 26 columns):
 #   Column         Non-Null Count  Dtype
---  ------         --------------  -----
 0   Sl.NO.         130 non-null    int64
 1   PLAYER NAME    130 non-null    object
 2   AGE            130 non-null    int64
 3   COUNTRY        130 non-null    object
 4   TEAM           130 non-null    object
 5   PLAYING ROLE   130 non-null    object
 6   T-RUNS         130 non-null    int64
 7   T-WKTS         130 non-null    int64
 8   ODI-RUNS-S     130 non-null    int64
 9   ODI-SR-B       130 non-null    float64
 10  ODI-WKTS       130 non-null    int64
 11  ODI-SR-BL      130 non-null    float64
 12  CAPTAINCY EXP  130 non-null    int64
```

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Run Code

Slicing and Indexing a DataFrame

```
In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:
```

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Run Code

		AC				Keeper										
29	30	Gony, MS	2		IND	CSK+	Bowler	0	0	0	0.00	...	117.39	5	999	30	33

5 rows × 26 columns

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

5 rows × 26 columns

In [17]:
```
ipl_auc_df[-5:]
```

Out[17]:

	SI.NO.	PLAYER NAME	AGE	COUNTRY	TEAM	PLAYING ROLE	T-RUNS	T-WKTS	ODI-RUNS-S	ODI-SR-B	...	SR-B	SIXERS	RUNS-C	WKTS	A
125	126	Yadav, AS	2	IND	DC	Batsman	0	0	0	0.00	...	125.64	2	0	0	I
126	127	Younis Khan	2	PAK	RR	Batsman	6398	7	6814	75.78	...	42.85	0	0	0	I
127	128	Yuvraj Singh	2	IND	KXIP+	Batsman	1775	9	8051	87.58	...	131.88	67	569	23	2
128	129	Zaheer Khan	2	IND	MI+	Bowler	1114	288	790	73.55	...	91.67	1	1783	65	2
129	130	Zoysa, DNT	2	SL	DC	Bowler	288	64	343	95.81	...	122.22	0	99	2	4

5 rows × 26 columns

In [ ]:

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Run Code

2	Agarkar, AB	IND
3	Ashwin, R	IND
4	Badrinath, S	IND
5	Bailey, GJ	AUS
6	Balaji, L	IND
7	Bollinger, DE	AUS
8	Botha, J	SA
9	Boucher, MV	SA

In [ ]:
```
ipl_auc_df,iloc[4:9, 1:4]
```

In [ ]:

BITS Pilani

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Logout

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Run Code

9	Boucher, MV	SA

In [22]:
```
# Extract rows 4 thru 8 and columns 1 thru 3
ipl_auc_df.iloc[4:9, 1:4]
```

Out[22]:

	PLAYER NAME	AGE	COUNTRY
4	Badrinath, S	2	IND
5	Bailey, GJ	2	AUS
6	Balaji, L	2	IND
7	Bollinger, DE	2	AUS
8	Botha, J	2	SA

In [ ]:

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Run Code

3	4	Ashwin, R	1	IND	CSK	Bowler	264	31	241	64.56	...	76.32	0	1125	49	22
4	5	Badrinath, S	2	IND	CSK	Batsman	63	0	79	45.93	...	120.71	28	0	0	0

5 rows × 26 columns

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

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Logout

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Run Code

8	Botha, J	2	SA

In [23]:
```
ipl_auc_df.head()
```

Out[23]:

	SI.NO.	PLAYER NAME	AGE	COUNTRY	TEAM	PLAYING ROLE	T-RUNS	T-WKTS	ODI-RUNS-S	ODI-SR-B	...	SR-B	SIXERS	RUNS-C	WKTS	A\
0	1	Abdulla, YA	2	SA	KXIP	Allrounder	0	0	0	0.00	...	0.00	0	307	15	20
1	2	Abdur Razzak	2	BAN	RCB	Bowler	214	18	657	71.41	...	0.00	0	29	0	0
2	3	Agarkar, AB	2	IND	KKR	Bowler	571	58	1269	80.62	...	121.01	5	1059	29	36
3	4	Ashwin, R	1	IND	CSK	Bowler	284	31	241	84.56	...	76.32	0	1125	49	22
4	5	Badrinath, S	2	IND	CSK	Batsman	63	0	79	45.93	...	120.71	28	0	0	0

5 rows × 26 columns

In [24]:
```
ipl_auc_df['PLAYING ROLE'].unique()
```

GEETHA V

BITS Pilani

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Run Code

1	2	Abdur Razzak	2	BAN	RCB	Bowler	214	18	657	71.41	...	0.00	0	29	0	0
2	3	Agarkar, AB	2	IND	KKR	Bowler	571	58	1269	80.62	...	121.01	5	1059	29	36
3	4	Ashwin, R	1	IND	CSK	Bowler	284	31	241	84.56	...	76.32	0	1125	49	22
4	5	Badrinath, S	2	IND	CSK	Batsman	63	0	79	45.93	...	120.71	28	0	0	0

5 rows × 26 columns

In [24]:
```
ipl_auc_df['PLAYING ROLE'].unique()
```

Out[24]:
```
array(['Allrounder', 'Bowler', 'Batsman', 'W. Keeper'], dtype=object)
```

In [25]:
```
pd.get_dummies(ipl_auc_df['PLAYING ROLE']) [:10]
```

Out[25]:

	Allrounder	Batsman	Bowler	W. Keeper
0	1	0	0	0
1	0	0	1	0
2	0	0	1	0

VIKASH KUMAR

BITS Pilani

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Run Code

5 rows × 26 columns

In [24]:
```
ipl_auc_df['PLAYING ROLE'].unique()
```

Out[24]:
```
array(['Allrounder', 'Bowler', 'Batsman', 'W. Keeper'], dtype=object)
```

In [25]:
```
pd.get_dummies(ipl_auc_df['PLAYING ROLE']) [:10]
```

Out[25]:

	Allrounder	Batsman	Bowler	W. Keeper
0	1	0	0	0
1	0	0	1	0
2	0	0	1	0
3	0	0	1	0
4	0	1	0	0
5	0	1	0	0
6	0	0	1	0
7	0	0	1	0
8	1	0	0	0

VISHAL GUPTA

BITS Pilani

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Run Code

6	0	0	1	0
7	0	0	1	0
8	1	0	0	0
9	0	0	0	1

In [ ]:
```
x_features = ipl_auc_df.columns
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

AMIT KHARE
Like data quality check ?
Imparts

BITS Pilani

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Run Code

```
x_features = ['PLAYER NAME']

y_features = ['TEAM', 'PLAYER ROLE']
```

In [31]:
```
ipl_auc_encoded_df = pd.get_dummies(ipl_acu_df[x_features], columns=y_features)

ipl_auc_encoded_df
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-31-0496799206f8> in <module>
----> 1 ipl_auc_encoded_df = pd.get_dummies(ipl_acu_df[x_features], columns=y_features)
      2
      3 ipl_auc_encoded_df

NameError: name 'ipl_acu_df' is not defined
```

In [ ]:

In [ ]:

In [ ]:

RAMYA M

BITS Pilani

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Run Code

8	1	0	0	0
9	0	0	0	1

In [33]:
```
x_features = ipl_auc_df.columns

x_features = ['PLAYER NAME']

y_features = ['TEAM', 'PLAYER ROLE']
```

In [32]:
```
ipl_auc_encoded_df = pd.get_dummies(ipl_auc_df[x_features], columns=y_features)

ipl_auc_encoded_df
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
<ipython-input-32-b166747a183f> in <module>
----> 1 ipl_auc_encoded_df = pd.get_dummies(ipl_auc_df[x_features], columns=y_features)
      2
      3 ipl_auc_encoded_df

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\reshape\reshape.py in get_dummies(data, prefi
x, prefix_sep, dummy_na, columns, sparse, drop_first, dtype)
    866             raise TypeError("Input must be a list-like for parameter `columns`")
```

BITS Pilani

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```
x, prefix_sep, dummy_na, columns, sparse, drop_first, dtype)
    866             raise TypeError("Input must be a list-like for parameter `columns`")
    867         else:
--> 868             data_to_encode = data[columns]
    869
    870         # validate prefixes and separator to avoid silently dropping cols

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\frame.py in __getitem__(self, key)
   2804             if is_iterator(key):
   2805                 key = list(key)
-> 2806             indexer = self.loc._get_listlike_indexer(key, axis=1, raise_missing=True)[1]
   2807
   2808         # take() does not accept boolean indexers

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\indexing.py in _get_listlike_indexer(self, ke
y, axis, raise_missing)
   1551
   1552         self._validate_read_indexer(
-> 1553             keyarr, indexer, o._get_axis_number(axis), raise_missing=raise_missing
   1554         )
   1555         return keyarr, indexer

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\indexing.py in _validate_read_indexe
y, indexer, axis, raise_missing)
   1638             if missing == len(indexer):
```

SHILPA BINDRA

BITS Pilani

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Run Code

```
x_features = ['PLAYER NAME']

y_features = ['TEAM', 'PLAYER ROLE']
```

In [32]:
```
ipl_auc_encoded_df = pd.get_dummies(ipl_auc_df[x_features], columns=y_features)

ipl_auc_encoded_df
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
<ipython-input-32-b166747a183f> in <module>
----> 1 ipl_auc_encoded_df = pd.get_dummies(ipl_auc_df[x_features], columns=y_features)
      2
      3 ipl_auc_encoded_df

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\reshape\reshape.py in get_dummies(data, prefi
x, prefix_sep, dummy_na, columns, sparse, drop_first, dtype)
    866             raise TypeError("Input must be a list-like for parameter `columns`")
    867         else:
--> 868             data_to_encode = data[columns]
    869
    870         # validate prefixes and separator to avoid silently dropping cols

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\frame.py in __getitem__(self, key)
```

SHILPA BINDRA
a bracket is missing
Importus

BITS Pilani

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Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

1	2	Abdur Razzak	2	BAN	RCB	Bowler	214	18	657	71.41	...	0.00	0	29	0	0
2	3	Agarkar, AB	2	IND	KKR	Bowler	571	58	1269	80.62	...	121.01	5	1059	29	36
3	4	Ashwin, R	1	IND	CSK	Bowler	284	31	241	84.56	...	76.32	0	1125	49	22
4	5	Baganostn, B	2	IND	CSK	Batsman	63	0	79	45.93	...	120.71	26	0	9	0

5 rows × 26 columns

In [ ]:
```
ipl_auc_df.AGE.value_counts
```

In [ ]:

In [ ]:

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Run Code

```
Name: Age, dtype: int64
```

In [38]:
```
# Crosstabulation

pd.crosstab(ipl_auc_df['AGE'], ipl_auc_df['PLAYING ROLE'])
```

Out[38]:

PLAYING ROLE	Allrounder	Batsman	Bowler	W. Keeper
AGE				
1	4	5	7	0
2	25	21	29	11
3	6	13	8	1

In [ ]:

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Run Code

50	Kohli, V	1800000
111	Tendulkar, SR	1800000
113	Tiwary, SS	1600000
83	Pietersen, KP	1550000
23	Flintoff, A	1550000
15	Dhoni, MS	1500000
108	Symonds, A	1350000
110	Taylor, LRPL	1000000

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

BITS Pilani

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Run Code

```
110    Taylor, LRPL    1000000
```

In [42]:
```
import matplotlib.pyplot as plt
```

In [43]:
```
ipl_auc_df.groupby('AGE')['SOLD PRICE'].mean()
```

Out[43]:
```
AGE
1    720250.000000
2    484534.883721
3    520178.571429
Name: SOLD PRICE, dtype: float64
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

DILRAJ BHINDER
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BITS Pilani

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Run Code

In [43]:
```
ipl_auc_df.groupby('AGE')['SOLD PRICE'].mean()
```

Out[43]:
```
AGE
1    720250.000000
2    484534.883721
3    520178.571429
Name: SOLD PRICE, dtype: float64
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

In [43]:
```
ipl_auc_df.groupby('AGE')['SOLD PRICE'].mean()
```

Out[43]:
```
AGE
1    720250.000000
2    484534.883721
3    520178.571429
Name: SOLD PRICE, dtype: float64
```

In [ ]:
```
ipl_auc_df.groupby('AGE')['SOLD PRICE'].mean()
```

In [ ]:

In [ ]:

In [ ]:

SWATHI G

BITS Pilani

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Run Code

127	Yuvraj Singh	1800000
50	Kohli, V	1800000
111	Tendulkar, SR	1800000
113	Tiwary, SS	1600000
83	Pietersen, KP	1550000
23	Flintoff, A	1550000
15	Dhoni, MS	1500000
108	Symonds, A	1350000
110	Taylor, LRPL	1000000

In [42]:
```
import matplotlib.pyplot as plt
```

In [43]:
```
ipl_auc_df.groupby('AGE')['SOLD PRICE'].mean()
```

Out[43]:
```
AGE
1    720250.000000
2    484534.883721
3    520178.571429
Name: SOLD PRICE, dtype: float64
```

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```
2    484534.883721
3    520178.571429
Name: SOLD PRICE, dtype: float64
```

In [45]:
```
meanSoldPriceByAge = ipl_auc_df.groupby('AGE')['SOLD PRICE'].mean().reset_index()

type(meanSoldPriceByAge)
```

Out[45]:
```
pandas.core.frame.DataFrame
```

In [47]:
```
sn.barplot(x='AGE', y='SOLD PRICE', data=meanSoldPriceByAge)
```

Out[47]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x1d209a35400>
```

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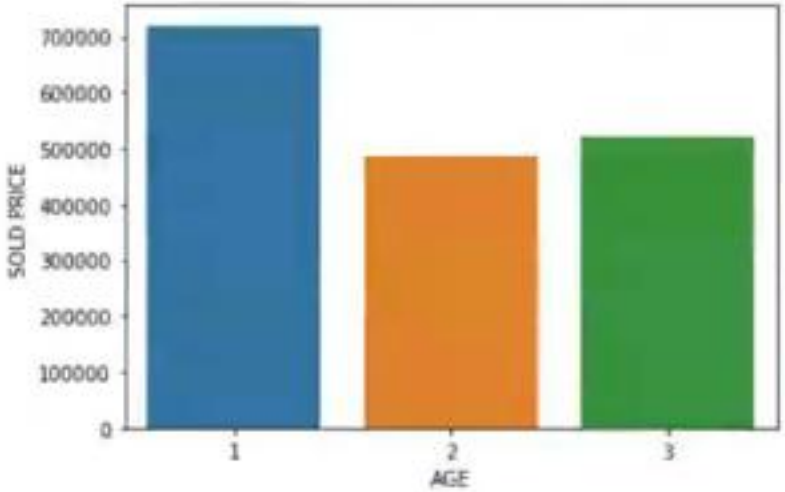
Run Code

In [47]:
```
sn.barplot(x='AGE', y='SOLD PRICE', data=meanSoldPriceByAge)
```

Out[47]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x1d209a35400>
```



In [ ]:

In [ ]:

BITS Pilani

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Logout

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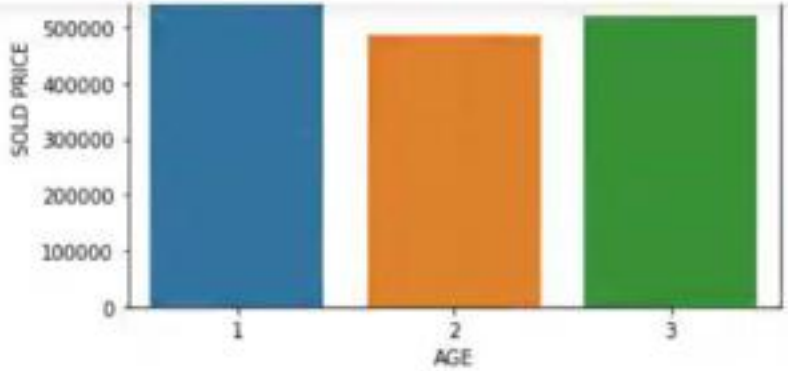
Run Code



In [ ]:

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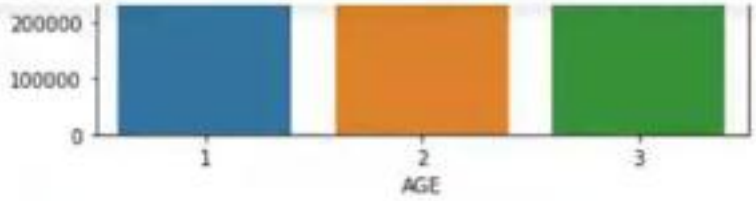

In [48]:
```
avgSoldPriceByAgeRole = ipl_auc_df(['AGE', 'PLAYING ROLE'])['SOLD PRICE'].mean().reset_index()

type(avgSoldPriceByAgeRole)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-48-4c2faf4c1397> in <module>
----> 1 avgSoldPriceByAgeRole = ipl_auc_df(['AGE', 'PLAYING ROLE'])['SOLD PRICE'].mean().reset_index
()
      2
      3 type(avgSoldPriceByAgeRole)

TypeError: 'DataFrame' object is not callable
```

In [ ]:

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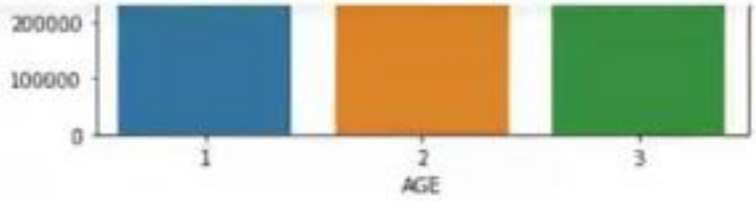

In [49]:
```
avgSoldPriceByAgeRole = ipl_auc_df.groupby(['AGE', 'PLAYING ROLE'])['SOLD PRICE'].mean().reset_index()
type(avgSoldPriceByAgeRole)
```

Out[49]: pandas.core.frame.DataFrame

In [ ]:

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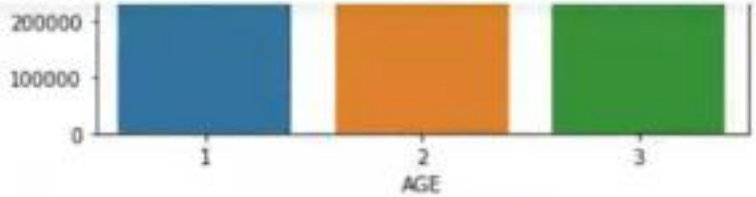

In [49]:
```
avgSoldPriceByAgeRole = ipl_auc_df.groupby(['AGE', 'PLAYING ROLE'])['SOLD PRICE'].mean().reset_index()
type(avgSoldPriceByAgeRole)
```

Out[49]:
```
pandas.core.frame.DataFrame
```

In [ ]:

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Run Code

0	1	Allrounder	5.875000e+05
1	1	Batsman	1.110000e+06
2	1	Bowler	5.177143e+05
3	2	Allrounder	4.494000e+05
4	2	Batsman	6.547619e+05

In [ ]:

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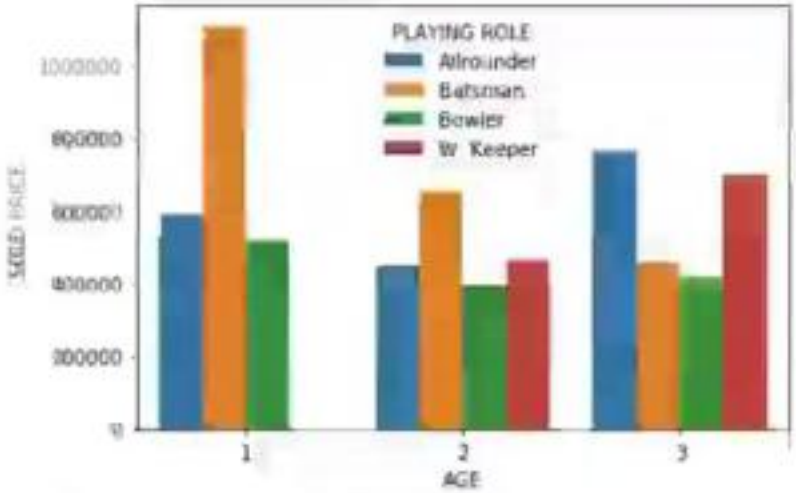
Run Code

4	2	Batsman	6.547619e+05

In [51]:
```
sn.barplot(x ='AGE', y='SOLD PRICE', hue='PLAYING ROLE', data = avgSoldPriceByAgeRole)
```

Out[51]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x1d20a1f2588>
```



In [ ]:

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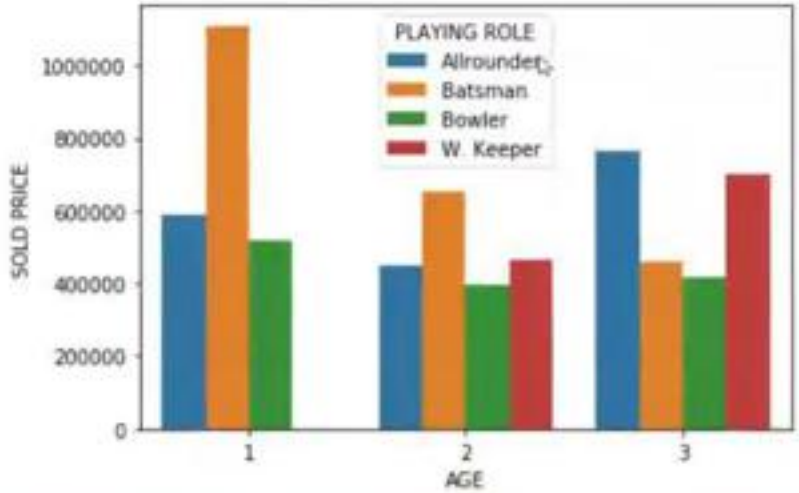
4	2	Batsman	6.547619e+05

In [51]:
```
sn.barplot(x ='AGE', y='SOLD PRICE', hue='PLAYING ROLE', data = avgSoldPriceByAgeRole)
```

Out[51]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x1d20a1f2588>
```



In [ ]:

V SATYA NARAYANA PATNAIK

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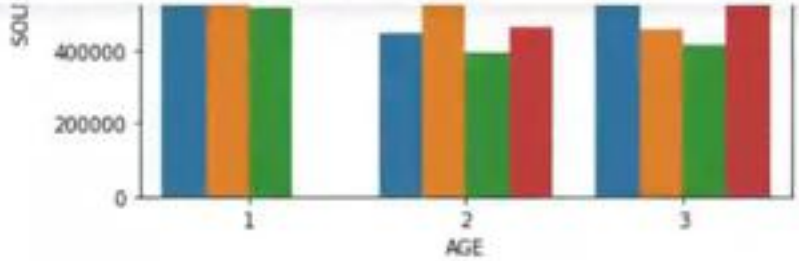

Scatter Plot

```
In [ ]:
```

```
In [ ]:
```

SANTANU GHOSH

BITS Pilani