WEEKLY PROJECT 19

Baseball - Dataset Analysis :

In [38]:
```
import pandas as pd
import numpy as np
```

In [39]:
```
df = pd.read_csv("Baseball_data.csv")
```

In [40]:
```
df
```

Out[40]:

	name	handedness	height	weight	avg	HR
0	Tom Brown	R	73	170	0.000	0
1	Denny Lemaster	R	73	182	0.130	4
2	Joe Nolan	L	71	175	0.263	27
3	Denny Doyle	L	69	175	0.250	16
4	Jose Cardenal	R	70	150	0.275	138
...	...	...	...	...	...	...
1152	Gary Lance	B	75	195	0.000	0
1153	Tom O'Malley	L	72	180	0.256	13
1154	Phil Garner	R	70	175	0.260	109
1155	Larry Pashnick	R	75	205	0.000	0
1156	Todd Fischer	R	70	170	0.000	0

1157 rows × 6 columns

1.Who are the Top 5 players having height more than average?

In [41]:
```
len_ = len(df["height"])
sum_ = sum(df["height"])
avg_ = (sum_/len_)
print("The Average height is","-","{0:.2f}".format(avg_))
```

```
The Average height is - 72.76
```

In [42]:
```
len_ = len(df["name"])
players_ = []
height_ = []
for i in range(len_):
    if(df["height"][i]>avg_):
        players_.append(df['name'][i])
        height_.append(df['height'][i])
```

In [43]:
```
print(height_)
```

```
[73, 73, 74, 73, 74, 73, 75, 73, 73, 74, 75, 73, 73, 74, 75, 73, 77, 73, 74, 74, 74, 75, 76, 74, 73, 73, 76, 74, 75, 75, 74, 78, 77, 74, 76, 75, 76, 73, 75, 76, 75, 73, 73, 73, 7
4, 78, 73, 74, 79, 76, 74, 74, 74, 73, 73, 74, 74, 74, 76, 73, 76, 76, 77, 76, 73, 76, 75, 73, 74, 79, 73, 74, 78, 73, 73, 75, 77, 75, 73, 76, 75, 73, 73, 75,
76, 73, 73, 73, 75, 75, 73, 73, 74, 75, 75, 73, 74, 75, 74, 74, 74, 75, 73, 74, 76, 75, 73, 76, 74, 77, 73, 77, 74, 76, 74, 74, 73, 74, 74, 74, 73, 74, 7
3, 75, 74, 75, 76, 75, 73, 73, 74, 74, 78, 74, 76, 76, 77, 75, 73, 74, 74, 76, 73, 73, 73, 74, 76, 75, 74, 73, 73, 75, 75, 78, 75, 74, 73, 76, 73, 78, 75,
76, 73, 73, 74, 73, 76, 74, 73, 73, 74, 76, 73, 73, 75, 75, 74, 76, 73, 75, 74, 74, 73, 74, 74, 73, 73, 73, 73, 75, 80, 75, 75, 73, 74, 73, 73, 74, 74, 7
7, 73, 75, 75, 74, 74, 77, 74, 76, 74, 73, 76, 74, 73, 75, 75, 73, 75, 74, 74, 73, 75, 73, 73, 78, 75, 73, 75, 73, 73, 80, 75, 73, 74, 74, 75, 75, 75, 75,
73, 77, 74, 74, 76, 73, 74, 75, 76, 73, 77, 75, 73, 74, 74, 74, 75, 73, 74, 73, 73, 74, 74, 74, 73, 75, 74, 75, 75, 74, 76, 74, 76, 73, 73, 74, 73, 73, 7
5, 75, 73, 73, 75, 75, 78, 74, 73, 73, 73, 76, 73, 74, 75, 75, 75, 75, 73, 75, 76, 74, 75, 75, 73, 77, 74, 73, 75, 73, 77, 76, 75, 74, 75, 73, 76, 76, 75,
75, 75, 74, 74, 75, 76, 73, 75, 73, 77, 73, 74, 73, 75, 74, 73, 73, 76, 74, 74, 73, 74, 73, 73, 75, 74, 73, 73, 74, 76, 73, 73, 73, 73, 73, 74, 77, 74, 7
5, 77, 77, 73, 73, 77, 80, 73, 75, 73, 74, 74, 73, 73, 74, 74, 74, 74, 75, 73, 73, 73, 76, 73, 74, 74, 74, 76, 73, 74, 74, 78, 74, 74, 77, 79, 74, 74, 74,
74, 73, 75, 74, 75, 73, 75, 74, 77, 73, 76, 74, 76, 73, 74, 75, 73, 74, 73, 75, 77, 73, 75, 74, 75, 75, 76, 73, 76, 75, 73, 73, 75, 73, 73, 76, 73, 75, 7
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73, 74, 73, 75, 75, 74, 75, 77, 76, 76, 74, 76, 76, 74, 78, 75, 73, 76, 74, 75, 77, 74, 76, 73, 73, 74, 73, 74, 74, 73, 74, 73, 74, 74, 75, 76, 74, 74, 73, 7
4, 73, 76, 75, 74, 74, 74, 75, 73, 74, 73, 73, 74, 73, 74, 75, 74, 74, 73, 74, 73, 74, 73, 73, 74, 73, 73, 74, 74, 74, 76, 73, 74, 75, 73, 73, 73, 80, 73,
74, 73, 73, 74, 75, 74, 73, 73, 75, 76, 74, 73, 73, 74, 75, 74, 75, 77, 76, 74, 74, 74, 73, 80, 73, 76, 73, 74, 73, 77, 75, 73, 76, 76, 78, 75, 77, 75, 74, 73, 7
5, 75]
```

In [44]:
```
print(players_)
```

```
['Tom Brown', 'Denny Lemaster', 'Mike Ryan', 'Rod Kanehl', 'Ozzie Osborn', 'John LaRose', 'Jeff Byrd', 'Jerry Kutzler', 'Rick Wise', 'Darrell Evans', 'Jeff Barkle
y', 'Eric Wilkins', 'Britt Burns', 'Lee Lacy', 'Jeff Newman', 'Nardi Contreras', 'Tommie Reynolds', 'Jim Hickman', 'Jack Billingham', 'Gary Nolan', 'Gil Patterso
n', 'Fred Whitfield', 'Larry Dierker', 'Dave Skaggs', 'Dick Ruthven', 'Jerry Garvin', 'Steve Eddy', 'Dave Kingman', 'Kevin Mmahat', 'Tony Muser', 'Jim Siwy', 'Bud
Anderson', 'John Butcher', 'Jerry Ujdur', 'Scot Thompson', 'Brian Denman', 'Bob Fallon', 'Syd O'Brien', 'Chris Chambliss', 'Tom Satriano', 'Jeffrey Leonard', 'Ste
ve Curry', 'Mickey Lolich', 'Bryan Clutterbuck', 'Walt Bond', 'Bryan Clutterbuck', 'Byron Browne', 'Jerry Koosman', 'Omar Moreno', 'Julian Javier', 'Tony Ferrara', 'B
ryan Oelkers', 'Kevin Bearse', 'Bruce Boisclair', 'Ken Singleton', 'Gary Thomasson', 'Mike Trujillo', 'Albert Williams', 'Oswaldo Peraza', 'Barry Cort', 'Mike Loy
nd', 'Johnny Lewis', 'Dick Simpson', 'Ken McMullen', 'Randy Scarbery', 'Steve Swisher', 'Ben Callahan', 'Mike Ramsey', 'Willie Crawford', 'Mike Jones', 'Joe Lahou
d', 'Dave McKay', 'John Trautwein', 'Andy Replogle', 'Zach Crouch', 'Benny Ayala', 'Ron Romanick', 'Bruce Tanner', 'Johnny Jeter', 'Tony Oliva', 'Cito Gaston', 'D
ave Ford', 'Dan Ford', 'Ozzie Virgil', 'Jay Johnstone', 'Marc Hill', 'Danny Fife', 'Joe Niekro', 'Andy Etchebarren', 'Dave Concepcion', 'Ed Kranepool', 'Rick Rhod
en', 'Denny McLain', 'Andy Beene', 'Bruce Robbins', 'Larry Haney', 'Gary Roenicke', 'Don Lock', 'Billy Smith', 'Tony Perez', 'Dave Roberts', 'Brian Allard', 'Fern
ando Arroyo', 'Gary Beare', 'Charlie Spikes', 'Manny Jimenez', 'Chris Batton', 'Ken Henderson', 'Vance Lovelace', 'Vern Fuller', 'Paul Hartzell', 'Wayne Gross',
'Paul Casanova', 'Steve Rogers', 'Keith Creel', 'Lou Clinton', 'Nate Colbert', 'Phil Roof', 'Chuck Hinton', 'Tim Cullen', 'Tim Harkness', 'George Foster', 'Dave R
oberts', 'Jim Mason', 'Mike Smith', 'T.R. Bryden', 'Jose Arcia', 'Leon Durham', 'Andres Thomas', 'Ed Crosby', 'Bill Robinson', 'Jim Umbarger', 'George Mitterwal
d', 'Mike Darr', 'Bob Tillman', 'Curt Wardle', 'George Hendrick', 'Rick Manning', 'Steve Burke', 'Gary Matthews', 'Billy Bryan', 'Terry Taylor', 'Terry Whitfiel
d', 'Fred Lynn', 'Larry Hisle', 'Randy Nosek', 'Dave Engle', 'Mark Smith', 'Paul Mitchell', 'Rick Sweet', 'Rick Monday', 'Mark Belanger', 'Butch Edge', 'Gary Miel
ke', 'Rick Henninger', 'Ed Goodson', 'Mark Brown', 'Leroy Stanton', 'Danny Ainge', 'Adolfo Phillips', 'Steve Adkins', 'Terry Humphrey', 'Bill Moran', 'Tom Ville
s', 'Bobby Knoop', 'Bobby Brown', 'Ron Hodges', 'Tom Paciorek', 'Gary Woods', 'Bob Montgomery', 'Jeff Burroughs', 'Rusty Staub', 'Bob Kammeyer', 'Craig Reynolds',
'Al Cowens', 'Larry Parrish', 'Woodie Fryman', 'Bob Randall', 'Sherman Corbett', 'Mike Vail', 'Nick Esasky', 'Larry Biittner', 'John Pawlowski', 'Mel Stottlemyr
e', 'Jack Hardy', 'Ron Musselman', 'Roy Smalley', 'Andy Messersmith', 'Richie Zisk', 'Don Baylor', 'John Vukovich', 'Joe Simpson', 'Bruce Bochy', 'Mike Smithson',
'John Mayberry', 'Joe Skalski', 'Bert Bradley', 'Ken Holtzman', 'Pete Ward', 'Tom Nieto', 'Duke Sims', 'Mike Davis', 'Jerry Reuss', 'Danny Goodwin', 'Bob Knoppe
r', 'Jim Northrup', 'John Hale', 'Reggie Ritter', 'Bob Babcock', 'Art Howe', 'Howie Goss', 'Glenn Borgmann', 'Lamar Johnson', 'Jesus Alou', 'Enos Cabell', 'Fergie
Jenkins', 'Dick Dietz', 'Ted Cox', 'Bobby Mitchell', 'Barry Evans', 'Rob Woodward', 'Woody Woodward', 'Dave Duncan', 'Dick Billings', 'Bruce Bochte', 'Burt Hooto
n', 'Chuck Hockenbery', 'Bob Ferris', 'Andy Kosco', 'Steve Huntz', 'Gary Wheelock', 'Don Kessinger', 'Bake McBride', 'Dick Davis', 'Richie Scheinblum', 'Ed Herrma
nn', 'Mike Rochford', 'Jeff Schneider', 'Mike Hegan', 'Mike Diaz', 'Tim Lauder', 'Rick Kreuger', 'Roger Weaver', 'Rob Wilfong', 'Chris Knapp', 'Steve Henderson',
'Rob Picciolo', 'Don Welchel', 'Randy Wiles', 'Bill Melton', 'Rich Reese', 'Jack Hiatt', 'Nelson Mathews', 'Rafael Santana', 'Jeff Schattinger', 'Ike Brookens',
'Tommie Aaron', 'Steve Dillard', 'Win Remmerswaal', 'Jeff Peterek', 'George Scott', 'Jeff Shaver', 'Ken Walters', 'Gorman Thomas', 'Paul Dade', 'Tim Johnson', 'Ji
m Spencer', 'Pete LaCock', 'Pete Filson', 'Dalton Jones', 'Jim Gideon', 'Jerry May', 'Clint Hurdle', 'Mike Andrews', 'Jeff Twitty', 'Cliff Johnson', 'Steve Cumm
gs', 'Donn Clendenon', 'Charlie James', 'Bob Horner', 'Tom Veryzer', 'Jim Essian', 'Brian Giles', 'Garry Maddox', 'Don Mincher', 'Greg Erardi', 'Jim Farr', 'Mike
Ivie', 'Frank Dimichele', 'Bob Veale', 'Dusty Baker', 'Tucker Ashford', 'Ned Yost', 'Mike Warren', 'Gaylord Perry', 'Dave Marshall', 'Mickey Hatcher', 'Roger Repo
z', 'Bill Fulton', 'John Orsino', 'Larry Anderson', 'Johnny Briggs', 'Craig Mitchell', 'Dave Hostetler', 'Bob Jones', 'Alfredo Martinez', 'Dean Chance', 'Richie H
ebner', 'Fran Healy', 'Doc Edwards', 'Buddy Bell', 'Al Woods', 'Rudy Law', 'Joel Davis', 'Jody Davis', 'John Hobbs', 'Deron Johnson', 'John Denny', 'Greg Luzinsk
i', 'Karl Best', 'Steve Barr', 'Tony Horton', 'Ben Oglivie', 'Luis Sanchez', 'Brant Alyea', 'Jerry Narron', 'Mike Brown', 'Mike Brown', 'Greg Walker', 'Terry Harp
er', 'Steve Davis', 'Jeff Rineer', 'Barry Bonnell', 'Tom Seaver', 'Jerry Martin', 'Mark Mercer', 'Phil Gagliano', 'Mitchell Page', 'Bill Sudakis', 'John Caneira',
'Ron Oester', 'Glenn Adams', 'Clint Zavaras', 'Mike Parrott', 'Lee Thomas', 'Ray Fosse', 'Charley Smith', 'Paul Boris', 'Bob Uecker', 'Ray Knight', 'Thad Bosley',
'Bobby Grich', 'John Boccabella', 'Mark Esser', 'Curt Blefary', 'Daryl Smith', 'Dave Smith', 'Mack Jones', 'Hosken Powell', 'Dave Stapleton', 'Dave Stapleton', 'G
ary Ward', 'Jim Lonborg', 'Tom Klawitter', 'Larry Herndon', 'Gary Christenson', 'Jim Wright', 'Jim Wright', 'Mike Kinnunen', 'Dave Rajsich', 'J.R. Richard', 'Bill
Voss', 'Wayne Krenchicki', 'Cardell Camper', 'Tom Tresh', 'Mike Overy', 'Johnnie LeMaster', 'Craig Chamberlain', 'Ken Rudolph', 'Wayne Nordhagen', 'Len Matuszek',
'Jim Maloney', 'Jerry Zimmerman', 'Rickey Keeton', 'Johnny Grubb', 'Johnny Bench', 'Terry Felton', 'Bob Meacham', 'Mark Clear', 'Sam Bowens', 'Hal Lanier', 'Mike
Pazik', 'Ron Stone', 'Rich Barnes', 'Bob Bailey', 'Cap Peterson', 'Ted Uhlaender', 'Dave Frost', 'Bill Nahorodny', 'Bob Boone', 'Rick Jones', 'Jim Dorsey', 'Carl
Taylor', 'Terry Harmon', 'Rich Yett', 'Don Leppert', 'Matt Williams', 'Jim Burton', 'Rick Anderson', 'Charlie Mitchell', 'Byron McLaughlin', 'Lee May', 'Luis Quin
tana', 'Sam McDowell', 'Dave Campbell', 'Pat Kelly', 'Keith Macwhorter', 'Don Wilson', 'Jaime Cocanower', 'Jeff Sellers', 'Steve Senteney', 'Jeff Bettendorf', 'Ke
n Phelps', 'Cesar Cedeno', 'Phil Linz', 'Brian Snyder', 'Steve Renko', 'Rick Sofield', 'Roger Miller', 'Doug DeCinces', 'Willie Aikens', 'Earl Williams', 'Willie
Mueller', 'Don Hahn', 'Tom Egan', 'Rico Carty', 'Les Straker', 'Lyman Bostock', 'Damaso Garcia', 'Don Kainer', 'Don Gordon', 'Roy Howell', 'Boog Powell', 'Sandy W
ihtol', 'Sonny Siebert', 'Jeff Richardson', 'Bobby Darwin', 'Dennis DeBarr', 'Bruce Miller', 'Butch Hobson', 'John Wathan', 'Hal King', 'Mike Krukow', 'Barry Foot
e', 'Alan Wiggins', 'Jay Pettibone', 'Gary Alexander', 'Andre Thornton', 'Bob Oliver', 'Ed Hodge', 'Tom Buskey', 'Stan Thomas', 'Bob Robertson', 'Larry Monroe',
'Roger Slagle', 'Ollie Brown', 'Frank Quilici', 'Curt Kaufman', 'Joe Pepitone', 'Bob Galasso', 'Bob Chance', 'Juan Nieves', 'Mike Bacsik', 'Craig Kusick', 'Glenn
Hoffman', 'Russ Gibson', 'Phil Huffman', 'Terry Francona', 'John Bateman', 'Luis Pujols', 'Joe Gaines', 'Doug Rader', 'Mickey Stanley', 'Steve Brown', 'Rick Lysan
der', 'Tommy John', 'Bruce Benedict', 'John Ellis', 'Wes Parker', 'David Green', 'Rick Reichardt', 'Alex Sanchez', 'Leon Roberts', 'Ray Burris', 'Len Gabrielson',
'Johnny Edwards', 'Tom Grieve', 'Bob Forsch', 'Gorman Heimueller', 'Bill Schroeder', 'Ron Reed', 'Fred Howard', 'Davey Johnson', 'Ellis Valentine', 'John Hoover',
'Doug Ault', 'Mike Walters', 'Willie Stargell', 'Steve Carlton', 'Jake Wood', 'Del Unser', 'Ivan Murrell', 'Lee Mazzilli', 'Alan Ashby', 'Bob Brenly', 'Ron Blombe
rg', 'Colby Ward', 'Jim Fregosi', 'Mike Schmidt', 'Champ Summers', 'Chuck Porter', 'Tom Haller', 'Tom Dozier', 'Ron Swoboda', 'Harry Spilman', 'Daryl Sconiers',
'Joe Torre', 'Al Ferrara', 'Rick Steirer', 'Al Lachowicz', 'Dave Nicholson', 'Ken Hubbs', 'Willie Davis', 'Jerry Moses', 'Bobby Bonds', 'Hal Breeden', 'Manny Tril
lo', 'Jerry Kenney', 'Fred Kendall', 'Mike Anderson', 'Jim Lewis', 'Joe Charboneau', 'Wilbur Howard', 'Rod Gilbreath', 'Mark Brouhard', 'Dan Morogiello', 'Mike Yo
ung', 'Chris Speier', 'Gene Michael', 'Mike Fischlin', 'Don Money', 'Joe Rudi', 'Jim Rice', 'Shawn Holman', 'Alan Wirth', 'Tom Matchick', 'Ellie Hendricks', 'Jim
Beauchamp', 'Terry Wilshusen', 'Art Shamsky', 'Steve Ellsworth', 'Butch Wynegar', 'Darrel Chaney', 'Dick Ken', 'Bryan Kelly', 'Bill Freehan', 'Ted Savage', 'Pete
Mackanin', 'Rick Leach', 'Dwayne Murphy', 'Larry Harlow', 'Mike Epstein', 'Jerry Mumphrey', 'Don Sutton', 'Glenn Beckert', 'Mike Shannon', 'Jason Thompson', 'John
Leister', 'Don Cooper', 'Rick Joseph', 'Cecil Upshaw', 'Bill Almon', 'Joe Ferguson', 'Jeff Jones', 'John Poloni', 'Dave Revering', 'Jerry Dybzinski', 'Mike Willi
s', 'Ken Harrelson', 'Bobby Wine', 'Stefan Wever', 'Dave Johnson', 'Doug Frobel', 'Bill Plummer', 'Buck Rodgers', 'Phil Niekro', 'Jeff Holly', 'Eric Hetzel', 'Bri
an Asselstine', 'Dave Lemanczyk', 'Al Jones', 'Sam Hinds', 'Tony Conigliaro', 'Clay Christiansen', 'Jim Barr', 'Larry Rothschild', 'Frank Duffy', 'Gary Lance', 'L
arry Pashnick']
```

In [45]:
```
df_ = pd.DataFrame(height_,columns = ["Height"])
df_["Players"] = players_
a = df_.sort_values(by = "Height",ascending = False).head(5)['Height'].values
b = df_.sort_values(by = "Height",ascending = False).head(5)['Players'].values
df1 = pd.DataFrame(a,columns = ["HEIGHT"])
df1["PLAYERS"] = b
df1.head()
```

Out[45]:

	HEIGHT	PLAYERS
0	80	Stefan Wever
1	80	J.R. Richard
2	80	Steve Ellsworth
3	80	Mike Smithson
4	79	Walt Bond

2. Name 2 players having least weight and must be left handed?

In [46]:
```
len_ = len(df["name"])
weight_ = []
handedness_ = []
players_ = []
for i in range(len_):
    if(df["handedness"][i] == "L"):
        weight_.append(df["weight"][i])
        handedness_.append(df["handedness"][i])
        players_.append(df["name"][i])
```

In [47]:
```
print(weight_)
```

```
[175, 175, 185, 185, 175, 200, 183, 215, 190, 195, 220, 175, 180, 190, 180, 195, 165, 205, 200, 195, 185, 228, 180, 160, 192, 195, 185, 190, 180, 175, 170, 189, 1
70, 197, 215, 175, 198, 175, 180, 160, 220, 165, 170, 173, 175, 188, 175, 170, 175, 185, 170, 180, 175, 205, 170, 170, 190, 170, 165, 180, 185, 205, 210, 195, 18
0, 182, 180, 195, 185, 182, 185, 180, 175, 175, 170, 160, 200, 220, 185, 170, 180, 170, 165, 200, 197, 185, 180, 160, 190, 193, 185, 210, 180, 175, 176, 180, 185,
170, 190, 175, 160, 190, 185, 175, 195, 205, 190, 186, 205, 175, 200, 175, 190, 160, 215, 215, 180, 185, 197, 175, 200, 195, 195, 165, 190, 195, 195, 175, 220, 16
5, 185, 170, 195, 173, 150, 175, 195, 190, 195, 205, 190, 188, 165, 180, 185, 185, 185, 200, 193, 170, 175, 195, 200, 160, 165, 180, 195, 185, 160, 205, 185,
175, 182, 190, 190, 195, 180, 185, 180, 195, 175, 190, 165, 205, 175, 170, 200, 165, 160, 175, 205, 185, 205, 195, 205, 195, 150, 220, 170, 205, 180, 160, 195, 18
0, 180, 180, 170, 175, 175, 160, 195, 180, 175, 185, 180, 180, 200, 185, 175, 160, 180, 180, 190, 170, 190, 180, 180, 175, 195, 194, 185, 190, 160, 180, 190, 195,
195, 188, 175, 190, 185, 180, 170, 209, 185, 195, 186, 220, 180, 170, 180, 190, 230, 190, 187, 200, 190, 192, 175, 185, 195, 185, 205, 190, 175, 165, 170, 190, 18
5, 180, 210, 220, 180, 195, 190, 200, 195, 175, 188, 210, 180, 195, 170, 185, 205, 195, 180, 180, 185, 196, 180, 170, 200, 173, 160, 195, 175, 168, 200, 170, 180,
185, 185, 230, 200, 195, 165, 210, 210, 150, 205, 174, 180, 165, 178, 198, 196, 183, 210, 175, 175, 175, 165, 180, 180]
```

In [48]:
```
print(handedness_)
```

```
['L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L',
'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L',
'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L',
'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L',
'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L',
'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L',
'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L',
'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L',
'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L',
'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L',
'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L', 'L']
```

In [49]:
```
print(players_)
```

```
['Joe Nolan', 'Denny Doyle', 'John LaRose', 'Frank Tepedino', 'Jerry Kutzler', 'Darrell Evans', 'Tommy McCraw', 'Britt Burns', 'Fred Whitfield', 'Jerry Garvin',
'Kevin Mmahat', 'Wayne Garrett', 'Tony Muser', 'Kevin Stanfield', 'Jim Lyttle', 'Scot Thompson', 'Gene Locklear', 'Pat Putnam', 'Bob Fallon', 'Chris Chambliss',
'Tom Satriano', 'Walt Bond', 'Omar Moreno', 'Tony Ferreira', 'Bryan Oelkers', 'Kevin Bearse', 'Bruce Boisclair', 'Jim Fairey', 'Gary Thomasson', 'Floyd Robinson',
'Lou Brock', 'Johnny Lewis', 'Ken Boswell', 'Willie Crawford', 'Mike Jones', 'Jeff Stone', 'Joe Lahoud', 'Tim Flannery', 'Zach Crouch', 'Greg Gross', 'Bruce Tanne
r', 'Jack Brohamer', 'Von Joshua', 'Eddie Milner', 'Tony Oliva', 'Johnny Oates', 'Pat Underwood', 'Mike Phillips', 'Jay Johnstone', 'Joel McKeon', 'Al Bumbry', 'J
ake Gibbs', 'Garry Hancock', 'Ed Kranepool', 'Chuck Hiller', 'Jorge Orta', 'Bruce Robbins', 'Tony Gonzalez', 'Brian Dubois', 'Steve Whitaker', 'Manny Jimenez', 'V
ance Lovelace', 'Wayne Gross', 'Ralph Botting', 'Terry Crowley', 'Tim Harkness', 'Jim French', 'Dave Roberts', 'Jim Mason', 'Willie Smith', 'Leon Durham', 'Dick P
hillips', 'Ed Crosby', 'Larry Stahl', 'Jose Cruz', 'Don Mason', 'Jim Umbarger', 'Curt Wardle', 'Duane Walker', 'Rod Carew', 'Rick Manning', 'Israel Sanchez', 'Ces
ar Geronimo', 'Billy Bryan', 'Terry Whitfield', 'Fred Lynn', 'Graig Nettles', 'Narciso Elvira', 'Mike Easler', 'Rick Monday', 'Joe Keough', 'Tony Solaita', 'Ed Go
odson', 'Jon Whitehouse', 'Dick Ruthven', 'Tom Hutton', 'Ron Hodges', 'Rich Chiles', 'Rusty Staub', 'Jim Norris', 'Oscar Gamble', 'George Vukovich', 'Joe Pacte
a', 'Craig Reynolds', 'Al Oliver', 'Sherman Corbett', 'Milt May', 'Jim Nettles', 'Larry Biittner', 'Joe Simpson', 'Bill Fahey', 'Bernie Allen', 'Claudell Washingt
on', 'John Donaldson', 'Mike Smithson', 'John Mayberry', 'Dan Briggs', 'Pete Ward', 'Duke Sims', 'Mike Davis', 'Jerry Reuss', 'Danny Goodwin', 'Bob Knepper', 'Mic
key Rivers', 'Jim Northrup', 'John Hale', 'Reggie Ritter', 'Carl Yastrzemski', 'Gates Brown', 'Ken Landreaux', 'Ray Webster', 'Bobby Mitchell', 'Bruce Bochte', 'B
ernie Carbo', 'Vic Davalillo', 'Jack Lowenstein', 'Joe Hague', 'Bake McBride', 'Ed Herrmann', 'Mike Rochford', 'Bob Molinaro', 'Mike Hegan', 'Angel Moreno', 'Rob
Wilfong', 'Randy Wiles', 'John Milner', 'Rich Reese', 'Bill Buckner', 'Jeff Schattinger', 'Darrell Porter', 'Tim Johnson', 'Tim Corcoran', 'Jim Spencer', 'Pete La
Cock', 'Matty Alou', 'Jim Dwyer', 'Dalton Jones', 'Clint Hurdle', 'Jeff Twitty', 'Boots Day', 'Don Mincher', 'Jim Gosger', 'Marvell Wynne', 'Dave Marshall', 'Roge
r Repoz', 'Johnny Briggs', 'Bob Jones', 'Keith Hernandez', 'Willie Upshaw', 'Dane Iorg', 'Richie Hebner', 'Gene Richards', 'Al Woods', 'Rudy Law', 'Joel Davis',
'Mike Fiore', 'Bobby Tolan', 'Steve Barr', 'Jose Tartabull', 'Ben Oglivie', 'Duane Kuiper', 'Jerry Narron', 'Ken Retzer', 'Greg Walker', 'Steve Davis', 'Jeff Rine
er', 'Reggie Jackson', 'Sonny Jackson', 'Mark Mercer', 'Rich Coggins', 'Mitchell Page', 'Glenn Adams', 'Joe Morgan', 'Lee Thomas', 'John Stephenson', 'Doug Clemen
s', 'Steve Braun', 'Ty Cline', 'Thad Bosley', 'Jimmie Hall', 'Brock Davis', 'Curt Blefary', 'Mack Jones', 'Hosken Powell', 'Dave Stapleton', 'Dan Meyer', 'Jim Hol
t', 'Guy Christenson', 'Mike Cummings', 'Dave Rajsich', 'Tim Harlow', 'Mike Epstein', 'Jason Thompson', 'Mike Jorgensen', 'Cecil Cooper', 'John Pol
owski', 'Mike Lum', 'Johnny Grubb', 'Mike Pazik', 'Jim Traber', 'Ron Stone', 'Ted Uhlaender', 'Bobby Murcer', 'Mark Souza', 'Rick Jones', 'Steve Kemp', 'Mike Harg
rove', 'Steve Hovley', 'Luis Quintana', 'Sam McDowell', 'Pat Kelly', 'Jerry Turner', 'Sandy Valdespino', 'Ken Phelps', 'Brian Snyder', 'Rick Sofield', 'Dave May',
'Willie Aikens', 'Mike Cubbage', 'Merritt Ranew', 'Lyman Bostock', 'Roy Howell', 'Boog Powell', 'Dennis DeBarr', 'Dan Driessen', 'Hal King', 'Ed Ott', 'Ed Hodge',
'Jim Gideon', 'Joe Pepitone', 'Steve Barber', 'Norm Miller', 'Bob Galasso', 'Bob Chance', 'Juan Nieves', 'Rudy Meoli', 'Ruppert Jones', 'Terry Francona', 'Ralph
Garr', 'Broderick Perkins', 'Len Gabrielson', 'Johnny Edwards', 'Bruce Ellingsen', 'Gorman Heimueller', 'Clay Dalrymple', 'Carlos May', 'Mike Brumley', 'Al Luplo
w', 'Willie Stargell', 'Steve Carlton', 'Del Unser', 'Ron Blomberg', 'Willie Montanez', 'Mike Squires', 'Champ Summers', 'Tom Haller', 'Ed Stroud', 'Harry Spilma
n', 'Daryl Sconiers', 'Leron Lee', 'Willie Davis', 'Jerry Kenney', 'Dan Morogiello', 'Tom Matchick', 'Jack Perconte', 'Ed Kirkpatrick', 'Ellie Hendricks', 'Art Sh
amsky', 'Dick Nen', 'Rowland Office', 'Rick Leach', 'Dwayne Murphy', 'Larry Harlow', 'Mike Epstein', 'Jason Thompson', 'Mike Jorgensen', 'Cecil Cooper', 'John Pol
oni', 'Dave Revering', 'Curt Ford', 'Mike Willis', 'Bob Burda', 'Jesse Gonder', 'Dave Rader', 'Bill Sharp', 'Gail Hopkins', 'Doug Frobel', 'Jerry Augustine', 'Jef
f Holly', 'Tom Poquette', 'Brian Asselstine', 'Rick Miller', 'Jerry Remy', 'Larry Rothschild', 'Tom O'Malley']
```

In [50]:
```
df_ = pd.DataFrame(weight_,columns = ["Weight"])
df_["Handedness"] = handedness_
df_["Players"] = players_

a = df_.sort_values(by = "Weight",ascending = True).head(2)["Weight"].values
b = df_.sort_values(by = "Weight",ascending = True).head(2)["Handedness"].values
c = df_.sort_values(by = "Weight",ascending = True).head(2)["Players"].values

df1 = pd.DataFrame(a,columns = ["WEIGHT"])
df1["HANDEDNESS"] = b
df1["PLAYERS"] = c
df1.head()
```

Out[50]:

	WEIGHT	HANDEDNESS	PLAYERS
0	150	L	Curt Ford
1	150	L	Vic Davalillo