```
import sqlite3
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from collections import defaultdict
from matplotlib import pyplot
PROBLEM 1
sglite file = 'lahman2014.sglite'
conn = sqlite3.connect(sqlite file)
#the total payroll
salary query = "SELECT teamID, yearID, sum(salary) as total payroll
FROM Salaries GROUP BY teamID, yearID ORDER BY teamID, yearID"
team salaries = pd.read sql(salary query, conn)
#winning percentage
team_query = "SELECT teamID, yearID, W as number_of_wins, W as
number_of_games, (W*100.0/G) as win percentage FROM teams GROUP BY
teamID, yearID ORDER BY teamID, yearID"
win percentage = pd.read sql(team guery, conn)
#merge them into one SQL table
data = team salaries.merge(win percentage, how = "inner", left on =
["teamID", "yearID"], right_on = ["teamID", "yearID"])
data
    teamID
            vearID
                    total payroll
                                    number_of_wins
                                                     number_of_games
0
       ANA
              1997
                        31135472.0
                                                 84
                                                                   84
1
       ANA
              1998
                        41281000.0
                                                 85
                                                                   85
2
              1999
                                                 70
                                                                   70
       ANA
                        55388166.0
3
       ANA
              2000
                        51464167.0
                                                 82
                                                                   82
4
                                                 75
                                                                   75
       ANA
              2001
                        47535167.0
5
       ANA
              2002
                                                 99
                                                                   99
                        61721667.0
                                                 77
                                                                   77
6
       ANA
              2003
                        79031667.0
7
                                                 92
                                                                   92
       ANA
              2004
                       100534667.0
8
       ARI
              1998
                        32347000.0
                                                 65
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9
       ARI
              1999
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                        68703999.0
10
       ARI
              2000
                        81027833.0
                                                 85
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11
       ARI
              2001
                        85082999.0
                                                 92
                                                                   92
12
                                                 98
                                                                   98
       ARI
              2002
                       102819999.0
13
                                                                   84
       ARI
              2003
                        80657000.0
                                                 84
14
       ARI
              2004
                        69780750.0
                                                 51
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15
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       ARI
              2005
                        62329166.0
16
       ARI
              2006
                        59684226.0
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17
       ARI
              2007
                        52067546.0
                                                 90
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18
                                                 82
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       ARI
              2008
                        66202712.0
19
       ARI
                                                 70
                                                                   70
              2009
                        73115666.0
20
       ARI
              2010
                        60718166.0
                                                 65
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21
       ARI
              2011
                        53639833.0
                                                 94
                                                                   94
22
              2012
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       ARI
                        73804833.0
23
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              2013
                        90132000.0
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24
       ARI
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                                                                   64
                        97861500.0
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37         ATL         1997         52278500.0         101         101           38         ATL         1998         61186000.0         106         106           39         ATL         1999         73140000.0         103         103           40         ATL         2000         84537836.0         95         95           41         ATL         2001         91936166.0         88         88           42         ATL         2002         92870367.0         101         101           43         ATL         2003         106243667.0         101         101           44         ATL         2004         90182590.0         96         96           45         ATL         2005         86457302.0         90         90           46         ATL         2006         90156876.0         79         79         79           47         ATL         2007         87290833.0         84         84           48         ATL         2008         102365683.0         72         72         72           49         ATL         2009         96726166.0         86         86         86           5						
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42       ATL       2002       92870367.0       101       101         43       ATL       2003       106243667.0       101       101         44       ATL       2004       90182500.0       96       96         45       ATL       2005       86457302.0       90       90         46       ATL       2006       90156876.0       79       79         47       ATL       2007       87290833.0       84       84         48       ATL       2008       102365683.0       72       72         49       ATL       2009       96726166.0       86       86         50       ATL       2010       84423666.0       91       91       91         51       ATL       2011       87002692.0       89       89       89         52       ATL       2012       82829942.0       94       94         53       ATL       2013       87871525.0       96       96       96         54       ATL       2014       97609000.0       79       79       79         55       BAL       1985       11560712.0       83       83       83 <t< td=""><td>41</td><td>ATL</td><td>2001</td><td>91936166.0</td><td>88</td><td>88</td></t<>	41	ATL	2001	91936166.0	88	88
43       ATL       2003       106243667.0       101       101         44       ATL       2004       90182500.0       96       96         45       ATL       2005       86457302.0       90       90         46       ATL       2006       90156876.0       79       79         47       ATL       2007       87290833.0       84       84         48       ATL       2008       102365683.0       72       72         49       ATL       2009       96726166.0       86       86         50       ATL       2010       84423666.0       91       91         51       ATL       2011       87002692.0       89       89         52       ATL       2012       82829942.0       94       94         53       ATL       2013       87871525.0       96       96         54       ATL       2014       97609000.0       79       79         55       BAL       1985       11560712.0       83       83         56       BAL       1987       13900273.0       67       67         58       BAL       1988       13532075.0						
44       ATL       2004       90182500.0       96       96         45       ATL       2005       86457302.0       90       90         46       ATL       2006       90156876.0       79       79         47       ATL       2007       87290833.0       84       84         48       ATL       2008       102365683.0       72       72         49       ATL       2009       96726166.0       86       86         50       ATL       2010       84423666.0       91       91       91         51       ATL       2011       87002692.0       89       89       89       89         52       ATL       2012       82829942.0       94       94       94         53       ATL       2012       82829942.0       94       94       94         53       ATL       2013       87871525.0       96       96       96       96         54       ATL       2014       97609000.0       79       79       79       79       79       79       79       79       79       79       79       79       79       79       79       79 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
45       ATL       2005       86457302.0       90       90         46       ATL       2006       90156876.0       79       79         47       ATL       2007       87290833.0       84       84         48       ATL       2008       102365683.0       72       72         49       ATL       2009       96726166.0       86       86         50       ATL       2010       84423666.0       91       91       91         51       ATL       2011       87002692.0       89       89       89         52       ATL       2012       82829942.0       94       94       94         53       ATL       2013       87871525.0       96       96       96         54       ATL       2014       97609000.0       79       79       79         55       BAL       1985       11560712.0       83       83       83         56       BAL       1986       13001258.0       73       73       73       73         57       BAL       1987       13900273.0       67       67       67         59       BAL       1988       1						
46       ATL       2006       90156876.0       79       79         47       ATL       2007       87290833.0       84       84         48       ATL       2008       102365683.0       72       72         49       ATL       2009       96726166.0       86       86         50       ATL       2010       84423666.0       91       91         51       ATL       2011       878702692.0       89       89         52       ATL       2012       82829942.0       94       94         53       ATL       2013       87871525.0       96       96         54       ATL       2014       97609000.0       79       79       79         55       BAL       1985       11560712.0       83       83       83         56       BAL       1986       13001258.0       73       73       73       73         57       BAL       1987       13900273.0       67       67       67         58       BAL       1988       13532075.0       54       54         59       BAL       1989       8275167.0       87       87						
47       ATL       2007       87290833.0       84       84         48       ATL       2008       102365683.0       72       72         49       ATL       2009       96726166.0       86       86         50       ATL       2010       84423666.0       91       91         51       ATL       2011       87002692.0       89       89         52       ATL       2012       82829942.0       94       94         53       ATL       2013       87871525.0       96       96         54       ATL       2014       97609000.0       79       79         55       BAL       1985       11560712.0       83       83         56       BAL       1986       13001258.0       73       73       73         57       BAL       1987       13900273.0       67       67       67         58       BAL       1988       13532075.0       54       54       54         59       BAL       1989       8275167.0       87       87       87         60       BAL       1990       9680084.0       76       67       67						
48       ATL       2008       102365683.0       72       72         49       ATL       2009       96726166.0       86       86         50       ATL       2010       84423666.0       91       91         51       ATL       2011       87002692.0       89       89         52       ATL       2012       82829942.0       94       94         53       ATL       2013       87871525.0       96       96         54       ATL       2014       97609000.0       79       79         55       BAL       1985       11560712.0       83       83         56       BAL       1986       13001258.0       73       73       73         57       BAL       1987       13900273.0       67       67       67         58       BAL       1988       13532075.0       54       54       54         59       BAL       1989       8275167.0       87       87       87         60       BAL       1990       9680084.0       76       67       67       67         61       BAL       1991       17519000.0       67       67						
49       ATL       2009       96726166.0       86       86         50       ATL       2010       84423666.0       91       91         51       ATL       2011       87002692.0       89       89         52       ATL       2012       82829942.0       94       94         53       ATL       2013       87871525.0       96       96         54       ATL       2014       97609000.0       79       79         55       BAL       1985       11560712.0       83       83         56       BAL       1986       13001258.0       73       73       73         57       BAL       1987       13900273.0       67       67       67         58       BAL       1988       13532075.0       54       54       54         59       BAL       1989       8275167.0       87       87       87         60       BAL       1990       9680084.0       76       76       76         61       BAL       1991       17519000.0       67       67       67         62       BAL       1992       23780667.0       89       89						
50       ATL       2010       84423666.0       91       91         51       ATL       2011       87002692.0       89       89         52       ATL       2012       82829942.0       94       94         53       ATL       2013       87871525.0       96       96         54       ATL       2014       97609000.0       79       79       79         55       BAL       1985       11560712.0       83       83       83         56       BAL       1986       13001258.0       73       73       73       73         57       BAL       1986       13001258.0       73       73       73       73         57       BAL       1987       13900273.0       67       67       67       67         58       BAL       1988       13532075.0       54       54       54         59       BAL       1989       8275167.0       87       87       87         60       BAL       1990       968084.0       76       76       76       76       76       76       76       76       76       76       76       76       76       76<						
51       ATL       2011       87002692.0       89       89         52       ATL       2012       82829942.0       94       94         53       ATL       2013       87871525.0       96       96         54       ATL       2014       97609000.0       79       79         55       BAL       1985       11560712.0       83       83         56       BAL       1986       13001258.0       73       73       73         57       BAL       1987       13900273.0       67       67       67         58       BAL       1988       13532075.0       54       54       54         59       BAL       1989       8275167.0       87       87       87         60       BAL       1990       9680084.0       76       76       76       76         61       BAL       1991       17519000.0       67       67       67       67         62       BAL       1992       23780667.0       89       89       89       89         63       BAL       1993       29096500.0       63       63       63       63         65						
52       ATL       2012       82829942.0       94       94         53       ATL       2013       87871525.0       96       96         54       ATL       2014       97609000.0       79       79         55       BAL       1985       11560712.0       83       83         56       BAL       1986       13001258.0       73       73         57       BAL       1987       13900273.0       67       67         58       BAL       1988       13532075.0       54       54         59       BAL       1989       8275167.0       87       87         60       BAL       1990       9680084.0       76       76         61       BAL       1991       17519000.0       67       67         62       BAL       1992       23780667.0       89       89         63       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63       63         65       BAL       1995       43942521.0       71       71       71         66       BAL       1996						
53       ATL       2013       87871525.0       96       96         54       ATL       2014       97609000.0       79       79         55       BAL       1985       11560712.0       83       83         56       BAL       1986       13001258.0       73       73         57       BAL       1987       13900273.0       67       67         58       BAL       1988       13532075.0       54       54         59       BAL       1989       8275167.0       87       87         60       BAL       1990       9680084.0       76       76         61       BAL       1991       17519000.0       67       67         62       BAL       1992       23780667.0       89       89         63       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63       63         65       BAL       1995       43942521.0       71       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1998						
54       ATL       2014       97609000.0       79       79         55       BAL       1985       11560712.0       83       83         56       BAL       1986       13001258.0       73       73         57       BAL       1987       13900273.0       67       67         58       BAL       1988       13532075.0       54       54         59       BAL       1989       8275167.0       87       87         60       BAL       1990       9680084.0       76       76         61       BAL       1991       17519000.0       67       67         62       BAL       1992       23780667.0       89       89         63       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63       63         65       BAL       1995       43942521.0       71       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1998       72355634.0       79       79       79         69       BAL						
55       BAL       1985       11560712.0       83       83         56       BAL       1986       13001258.0       73       73         57       BAL       1987       13900273.0       67       67         58       BAL       1988       13532075.0       54       54         59       BAL       1989       8275167.0       87       87         60       BAL       1990       9680084.0       76       76         61       BAL       1991       17519000.0       67       67         62       BAL       1992       23780667.0       89       89         63       BAL       1993       29096500.0       85       85         64       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63       63         65       BAL       1995       43942521.0       71       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1998       72355634.0       79       79       79         69       BAL						
56       BAL       1986       13001258.0       73       73         57       BAL       1987       13900273.0       67       67         58       BAL       1988       13532075.0       54       54         59       BAL       1989       8275167.0       87       87         60       BAL       1990       9680084.0       76       76         61       BAL       1991       17519000.0       67       67         62       BAL       1992       23780667.0       89       89         63       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63       63         65       BAL       1995       43942521.0       71       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1997       58516400.0       98       98         68       BAL       1998       72355634.0       79       79       79         69       BAL       1999       80605863.0       78       78         70       BAL						
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58       BAL       1988       13532075.0       54       54         59       BAL       1989       8275167.0       87       87         60       BAL       1990       9680084.0       76       76         61       BAL       1991       17519000.0       67       67         62       BAL       1992       23780667.0       89       89         63       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63         65       BAL       1995       43942521.0       71       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1997       58516400.0       98       98         68       BAL       1998       72355634.0       79       79         69       BAL       1999       80605863.0       78       78         70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0	56	BAL	1986	13001258.0	73	73
59       BAL       1989       8275167.0       87       87         60       BAL       1990       9680084.0       76       76         61       BAL       1991       17519000.0       67       67         62       BAL       1992       23780667.0       89       89         63       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63       63         65       BAL       1995       43942521.0       71       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1997       58516400.0       98       98         68       BAL       1998       72355634.0       79       79         69       BAL       1999       80605863.0       78       78         70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003	57	BAL	1987	13900273.0	67	67
60       BAL       1990       9680084.0       76       76         61       BAL       1991       17519000.0       67       67         62       BAL       1992       23780667.0       89       89         63       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63         65       BAL       1995       43942521.0       71       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1997       58516400.0       98       98         68       BAL       1998       72355634.0       79       79         69       BAL       1999       80605863.0       78       78         70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003       73877500.0       71       71	58	BAL	1988	13532075.0	54	54
60       BAL       1990       9680084.0       76       76         61       BAL       1991       17519000.0       67       67         62       BAL       1992       23780667.0       89       89         63       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63         65       BAL       1995       43942521.0       71       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1997       58516400.0       98       98         68       BAL       1998       72355634.0       79       79         69       BAL       1999       80605863.0       78       78         70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003       73877500.0       71       71	59	BAL	1989	8275167.0	87	87
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62       BAL       1992       23780667.0       89       89         63       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63         65       BAL       1995       43942521.0       71       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1997       58516400.0       98       98         68       BAL       1998       72355634.0       79       79       79         69       BAL       1999       80605863.0       78       78       78         70       BAL       2000       81447435.0       74       74       74         71       BAL       2001       67599540.0       63       63       63         72       BAL       2002       60493487.0       67       67       67         73       BAL       2003       73877500.0       71       71       71						
63       BAL       1993       29096500.0       85       85         64       BAL       1994       38849769.0       63       63         65       BAL       1995       43942521.0       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1997       58516400.0       98       98         68       BAL       1998       72355634.0       79       79         69       BAL       1999       80605863.0       78       78         70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003       73877500.0       71       71						
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65       BAL       1995       43942521.0       71       71         66       BAL       1996       54490315.0       88       88         67       BAL       1997       58516400.0       98       98         68       BAL       1998       72355634.0       79       79         69       BAL       1999       80605863.0       78       78         70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003       73877500.0       71       71						
66       BAL       1996       54490315.0       88       88         67       BAL       1997       58516400.0       98       98         68       BAL       1998       72355634.0       79       79         69       BAL       1999       80605863.0       78       78         70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003       73877500.0       71       71						
67       BAL       1997       58516400.0       98       98         68       BAL       1998       72355634.0       79       79         69       BAL       1999       80605863.0       78       78         70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003       73877500.0       71       71						
68       BAL       1998       72355634.0       79       79         69       BAL       1999       80605863.0       78       78         70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003       73877500.0       71       71						
69       BAL       1999       80605863.0       78       78         70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003       73877500.0       71       71						
70       BAL       2000       81447435.0       74       74         71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003       73877500.0       71       71						
71       BAL       2001       67599540.0       63       63         72       BAL       2002       60493487.0       67       67         73       BAL       2003       73877500.0       71       71						
72 BAL 2002 60493487.0 67 67 73 BAL 2003 73877500.0 71 71						
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81         BAL         2011         85304038.0         69         69           82         BAL         2012         77353999.0         93         93           83         BAL         2013         843933333.0         85         85           84         BAL         2014         103416000.0         96         96           85         BOS         1985         10897560.0         81         81         81           86         BOS         1986         14402239.0         95         95         95           87         BOS         1987         10144167.0         78         78         88           88         BOS         1989         17481748.0         83         83         83           90         BOS         1990         20558333.0         88         88         88           91         BOS         1990         20558333.0         88         88         88           91         BOS         1990         20558333.0         88         88         88           92         BOS         1992         43619584.0         73         73         73         73         73         73         73	80	BAL		81612500.0		
82         BAL         2012         77353999.0         93         93           83         BAL         2013         84393333.0         85         85           84         BAL         2014         103416000.0         96         96           85         BOS         1985         10897560.0         81         81           86         BOS         1986         14402239.0         95         95           87         BOS         1987         10144167.0         78         78           88         BOS         1988         13896092.0         89         89           89         BOS         1998         17481748.0         83         83         83           80         BOS         1990         20558333.0         88         88         88           91         BOS         1991         35167500.0         84         84         84           92         BOS         1992         43619584.0         73         73         73         73           93         BOS         1993         37120583.0         80         80         80         80         80         80         80         80         80         8		BAL		85304038.0		
84         BAL         2014         103416000.0         96         96           85         BOS         1985         10897560.0         81         81         81           86         BOS         1986         14402239.0         95         95         95           87         BOS         1987         10144167.0         78         78         78           88         BOS         1988         13896092.0         89         89         89           89         BOS         1989         17481748.0         83         83         83           90         BOS         1990         20558333.0         88         88         88           91         BOS         1991         35167500.0         84         84         92           92         BOS         1992         43610584.0         73	82	BAL	2012	77353999.0		93
85         BOS         1985         10897560.0         81         81           86         BOS         1986         14402239.0         95         95           87         BOS         1987         10144167.0         78         78           88         BOS         1988         13896092.0         89         89           89         BOS         1990         20558333.0         88         83           90         BOS         1990         20558333.0         88         88           91         BOS         1991         35167500.0         84         84           92         BOS         1992         43610584.0         73         73         73           93         BOS         1993         37120583.0         80         80         80           94         BOS         1994         37859084.0         54         54         54           95         BOS         1995         32455518.0         86         86         86           96         BOS         1997         43558750.0         78         78         78           98         BOS         1997         43558750.0         78         73	83	BAL	2013	84393333.0	85	85
86         BOS         1986         14402239.0         95         95           87         BOS         1987         10144167.0         78         78           88         BOS         1988         13896092.0         89         89           89         BOS         1989         17481748.0         83         83           90         BOS         1990         20558333.0         88         88           91         BOS         1991         35167500.0         84         84           92         BOS         1992         43610584.0         73         73         73           93         BOS         1992         43610584.0         73         73         73           93         BOS         1993         37120583.0         80         80         80           94         BOS         1994         37859064.0         54         54         54           95         BOS         1995         32455518.0         86         86         86           96         BOS         1996         42393500.0         85         85         85           97         BOS         1997         43558750.0         78	84	BAL	2014	103416000.0	96	96
87       BOS       1987       10144167.0       78       78         88       BOS       1988       13896092.0       89       89         89       BOS       1999       17481748.0       83       83         90       BOS       1990       20558333.0       88       88         91       BOS       1991       35167500.0       84       84         92       BOS       1992       43610584.0       73       73       73         93       BOS       1993       37120583.0       80       80       80         94       BOS       1994       37859084.0       54       54       54         95       BOS       1994       37859084.0       54       54       54         95       BOS       1995       32455518.0       86       86       86       86         96       BOS       1996       42393500.0       85       85       85       85         97       BOS       1997       43558750.0       78       78       78       88       80       1998       56757000.0       92       92       92       92       92       92       92       92	85	B0S	1985	10897560.0	81	81
88       BOS       1988       13896092.0       89 <td>86</td> <td>B0S</td> <td>1986</td> <td>14402239.0</td> <td>95</td> <td>95</td>	86	B0S	1986	14402239.0	95	95
89       BOS       1989       17481748.0       83       83         90       BOS       1990       20558333.0       88       88         91       BOS       1991       35167500.0       84       84         92       BOS       1992       43610584.0       73       73         93       BOS       1994       37859084.0       54       54         95       BOS       1995       32455518.0       86       86       86         96       BOS       1996       42393500.0       85       85         97       BOS       1997       43558750.0       78       78       78         98       BOS       1998       56757000.0       92       92       92         99       BOS       1999       63497500.0       94       94         100       BOS       2000       77940333.0       85       85         101       BOS       2001       110035833.0       82       82       82         102       BOS       2002       108366060.0       93       93       93         103       BOS       2004       127298500.0       98       98       98 <td>87</td> <td>B0S</td> <td>1987</td> <td>10144167.0</td> <td></td> <td>78</td>	87	B0S	1987	10144167.0		78
90 BOS 1990 20558333.0 88 88 88 91 BOS 1991 35167500.0 84 84 84 84 92 BOS 1992 43610584.0 73 73 73 73 93 BOS 1993 37120583.0 80 80 80 80 94 BOS 1994 37859084.0 54 54 54 95 BOS 1995 32455518.0 86 86 86 86 86 86 86 86 86 86 86 86 86						
91       BOS       1991       35167500.0       84       84         92       BOS       1992       43610584.0       73       73         93       BOS       1993       37120583.0       80       80         94       BOS       1994       37859084.0       54       54         95       BOS       1995       32455518.0       86       86         96       BOS       1996       42393500.0       85       85         97       BOS       1997       43558750.0       78       78         98       BOS       1998       63497500.0       92       92       92         99       BOS       1999       63497500.0       94       94       94         100       BOS       2000       77940333.0       85       85       85         101       BOS       2001       110035833.0       82       82       82         102       BOS       2002       10836606.0       93       93       93         103       BOS       2003       99946500.0       95       95       95         104       BOS       2004       127298500.0       98       98 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
92       BOS       1992       43610584.0       73       73         93       BOS       1993       37120583.0       80       80         94       BOS       1994       37859084.0       54       54         95       BOS       1995       32455518.0       86       86       86         96       BOS       1996       42393500.0       85       85         97       BOS       1997       43558750.0       78       78         98       BOS       1998       56757600.0       92       92         99       BOS       1999       63497500.0       94       94         100       BOS       2000       77940333.0       85       85         101       BOS       2001       110035833.0       82       82         102       BOS       2002       108366060.0       93       93         103       BOS       2002       108366060.0       95       95         104       BOS       2004       127298500.0       95       95         104       BOS       2005       123505125.0       95       95         106       BOS       2006						
93       BOS       1993       37120583.0       80       80         94       BOS       1994       37859084.0       54       54         95       BOS       1995       32455518.0       86       86         96       BOS       1996       42393500.0       85       85         97       BOS       1997       43558750.0       78       78         98       BOS       1998       56757000.0       92       92         99       BOS       1999       63497500.0       94       94         100       BOS       2000       77940333.0       85       85         101       BOS       2001       110035833.0       82       82         102       BOS       2002       108366060.0       93       93         103       BOS       2003       99946500.0       95       95         104       BOS       2004       127298500.0       98       98         105       BOS       2004       127298500.0       98       98         106       BOS       2006       123099224.0       86       86       86         107       BOS       2007						
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95       BOS       1995       32455518.0       86       86         96       BOS       1996       42393500.0       85       85         97       BOS       1997       43558750.0       78       78         98       BOS       1998       56757000.0       92       92         99       BOS       1999       63497500.0       94       94         100       BOS       2000       77940333.0       85       85         101       BOS       2001       110035833.0       82       82         102       BOS       2002       108366060.0       93       93         103       BOS       2003       99946500.0       95       95         104       BOS       2004       127298500.0       98       98         105       BOS       2004       127298500.0       95       95         106       BOS       2006       123595125.0       95       95         106       BOS       2006       120099824.0       86       86         107       BOS       2007       143026214.0       96       96       96         108       BOS       2008						
96         BOS         1996         42393500.0         85         85           97         BOS         1997         43558750.0         78         78           98         BOS         1998         56757000.0         92         92           99         BOS         1999         63497500.0         94         94           100         BOS         2000         77940333.0         85         85           101         BOS         2001         110035833.0         82         82           102         BOS         2002         108366060.0         93         93           103         BOS         2003         99946500.0         95         95           104         BOS         2004         127298500.0         98         98           105         BOS         2005         123505125.0         95         95           106         BOS         2006         120099824.0         86         86         86           107         BOS         2007         143026214.0         96         96         96           108         BOS         2008         133390035.0         95         95         95           <						
97       BOS       1997       43558750.0       78       78         98       BOS       1998       56757000.0       92       92         99       BOS       1999       63497500.0       94       94         100       BOS       2000       77940333.0       85       85         101       BOS       2001       110035833.0       82       82         102       BOS       2002       108366060.0       93       93         103       BOS       2003       99946500.0       95       95         104       BOS       2004       127298500.0       98       98         105       BOS       2005       123505125.0       95       95         106       BOS       2006       120099824.0       86       86         107       BOS       2007       143026214.0       96       96         108       BOS       2008       133390035.0       95       95         109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       16176						
98       BOS       1998       56757000.0       94       94         100       BOS       2000       77940333.0       85       85         101       BOS       2001       110035833.0       82       82         102       BOS       2002       108366060.0       93       93         103       BOS       2003       99946500.0       95       95         104       BOS       2004       127298500.0       98       98         105       BOS       2005       123505125.0       95       95         106       BOS       2006       120099824.0       86       86         107       BOS       2007       143026214.0       96       96         108       BOS       2008       133390035.0       95       95         109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       161762475.0       90       90         112       BOS       2012       173186617.0       69       69         113       BOS       2013       1						
99       BOS       1999       63497500.0       94       94         100       BOS       2000       77940333.0       85       85         101       BOS       2001       110035833.0       82       82         102       BOS       2002       108366060.0       93       93         103       BOS       2003       99946500.0       95       95         104       BOS       2004       127298500.0       98       98         105       BOS       2004       127298500.0       98       98         105       BOS       2006       120099824.0       96       95         106       BOS       2006       120099824.0       86       86         107       BOS       2007       143026214.0       96       96         108       BOS       2008       133390035.0       95       95         109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       161762475.0       90       90         112       BOS       2012       1						
100       BOS       2000       77940333.0       85       85         101       BOS       2001       110035833.0       82       82         102       BOS       2002       108366060.0       93       93         103       BOS       2003       99946500.0       95       95         104       BOS       2004       127298500.0       98       98         105       BOS       2005       123505125.0       95       95         106       BOS       2006       120099824.0       86       86         107       BOS       2007       143026214.0       96       96         108       BOS       2008       133390035.0       95       95         109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       161762475.0       90       90         112       BOS       2012       173186617.0       69       69         113       BOS       2013       151530000.0       97       97         114       BOS       2014 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
101       BOS       2001       110035833.0       82       82         102       BOS       2002       108366060.0       93       93         103       BOS       2003       99946500.0       95       95         104       BOS       2004       127298500.0       98       98         105       BOS       2005       123505125.0       95       95         106       BOS       2006       120099824.0       86       86         107       BOS       2007       143026214.0       96       96         108       BOS       2008       133390035.0       95       95         109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       161762475.0       90       90         112       BOS       2012       173186617.0       69       69         113       BOS       2013       151530000.0       97       97         114       BOS       2014       139019929.0       71       71         115       CAL       1985 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
102       BOS       2002       108366060.0       93       93         103       BOS       2003       99946500.0       95       95         104       BOS       2004       127298500.0       98       98         105       BOS       2005       123505125.0       95       95         106       BOS       2006       120099824.0       86       86         107       BOS       2007       143026214.0       96       96         108       BOS       2008       133390035.0       95       95         109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       161762475.0       90       90         112       BOS       2012       173186617.0       69       69         113       BOS       2013       151530000.0       97       97         114       BOS       2014       139019929.0       71       71       71         115       CAL       1985       14427894.0       90       90       90         116       CA						
103       BOS       2003       99946500.0       95       95         104       BOS       2004       127298500.0       98       98         105       BOS       2005       123505125.0       95       95         106       BOS       2006       120099824.0       86       86         107       BOS       2007       143026214.0       96       96         108       BOS       2008       133390035.0       95       95         109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       161762475.0       90       90         112       BOS       2012       173186617.0       69       69         113       BOS       2013       1515300000.0       97       97         114       BOS       2014       139019929.0       71       71       71         115       CAL       1985       14427894.0       90       90       90         116       CAL       1986       14427258.0       92       92       92         117						
104       BOS       2004       127298500.0       98       98         105       BOS       2005       123505125.0       95       95         106       BOS       2006       120099824.0       86       86         107       BOS       2007       143026214.0       96       96         108       BOS       2008       133390035.0       95       95         109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       161762475.0       90       90         112       BOS       2012       173186617.0       69       69         113       BOS       2013       151530000.0       97       97         114       BOS       2014       139019929.0       71       71         115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988						
105       B0S       2005       123505125.0       95       95         106       B0S       2006       120099824.0       86       86         107       B0S       2007       143026214.0       96       96         108       B0S       2008       133390035.0       95       95         109       B0S       2009       121345999.0       95       95         110       B0S       2010       162447333.0       89       89         111       B0S       2011       161762475.0       90       90         112       B0S       2012       173186617.0       69       69         113       B0S       2013       151530000.0       97       97         114       B0S       2014       139019929.0       71       71         115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       1						
106       B0S       2006       120099824.0       86       86         107       B0S       2007       143026214.0       96       96         108       B0S       2008       133390035.0       95       95         109       B0S       2009       121345999.0       95       95         110       B0S       2010       162447333.0       89       89         111       B0S       2011       161762475.0       90       90         112       B0S       2012       173186617.0       69       69         113       B0S       2013       151530000.0       97       97         114       B0S       2014       139019929.0       71       71         115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21						
107       BOS       2007       143026214.0       96       96         108       BOS       2008       133390035.0       95       95         109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       161762475.0       90       90         112       BOS       2012       173186617.0       69       69         113       BOS       2013       151530000.0       97       97         114       BOS       2014       139019929.0       71       71         115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       330						
108       BOS       2008       133390035.0       95       95         109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       161762475.0       90       90         112       BOS       2012       173186617.0       69       69         113       BOS       2013       151530000.0       97       97         114       BOS       2014       139019929.0       71       71         115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       3306						
109       BOS       2009       121345999.0       95       95         110       BOS       2010       162447333.0       89       89         111       BOS       2011       161762475.0       90       90         112       BOS       2012       173186617.0       69       69         113       BOS       2013       151530000.0       97       97         114       BOS       2014       139019929.0       71       71       71         115       CAL       1985       14427894.0       90       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL						
110       B0S       2010       162447333.0       89       89         111       B0S       2011       161762475.0       90       90         112       B0S       2012       173186617.0       69       69         113       B0S       2013       151530000.0       97       97         114       B0S       2014       139019929.0       71       71         115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL       1993       28588334.0       71       71						
111       BOS       2011       161762475.0       90       90         112       BOS       2012       173186617.0       69       69         113       BOS       2013       151530000.0       97       97         114       BOS       2014       139019929.0       71       71         115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL       1993       28588334.0       71       71						
112       BOS       2012       173186617.0       69       69         113       BOS       2013       151530000.0       97       97         114       BOS       2014       139019929.0       71       71         115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL       1993       28588334.0       71       71						
113       BOS       2013       151530000.0       97       97         114       BOS       2014       139019929.0       71       71         115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL       1993       28588334.0       71       71						
114       BOS       2014       139019929.0       71       71         115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL       1993       28588334.0       71       71						
115       CAL       1985       14427894.0       90       90         116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL       1993       28588334.0       71       71						
116       CAL       1986       14427258.0       92       92         117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL       1993       28588334.0       71       71						
117       CAL       1987       12843499.0       75       75         118       CAL       1988       11947388.0       75       75         119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL       1993       28588334.0       71       71						
119       CAL       1989       15097833.0       91       91         120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL       1993       28588334.0       71       71	117	CAL	1987	12843499.0		75
120       CAL       1990       21720000.0       80       80         121       CAL       1991       33060001.0       81       81         122       CAL       1992       34749334.0       72       72         123       CAL       1993       28588334.0       71       71	118	CAL	1988	11947388.0	75	75
121     CAL     1991     33060001.0     81     81       122     CAL     1992     34749334.0     72     72       123     CAL     1993     28588334.0     71     71	119	CAL	1989	15097833.0	91	91
122     CAL     1992     34749334.0     72     72       123     CAL     1993     28588334.0     71     71	120	CAL	1990	21720000.0	80	80
123 CAL 1993 28588334.0 71 71						
124 CAL 1994 25156218.0 47 47						
	124	CAL	1994	25156218.0	47	47

125	CAL	1995	31223171.0	78	78
126	CAL	1996	28738000.0	70	70
127	CHA	1985	9846178.0	85	85
128	CHA	1986	10418819.0	72	72
129	CHA	1987	10641843.0	77	77
130	CHA	1988	6390000.0	71	71
131	CHA	1989	7265410.0	69	69
132	CHA	1990	9491500.0	94	94
133	CHA	1991	16919667.0	87	87
134	CHA	1992	30160833.0	86	86
135	CHA	1993	39696166.0	94	94
136	CHA	1994	39183836.0	67	67
137	CHA	1995	46961282.0	68	68
138	CHA	1996	45139500.0	85	85
139	CHA	1997	57740000.0	80	80
140	CHA	1998	38335000.0	80	80
141	CHA	1999	25620000.0	75	75
142	CHA	2000	31133500.0	95	95
143	CHA	2001	65653667.0	83	83
144	CHA	2001	57052833.0	81	81
144	CHA	2002	51010000.0	86	86
145	CHA	2003	65212500.0	83	83
147	CHA	2004	75178000.0	99	99
147	СНА	2005	102750667.0	99	99
				90 72	
149	CHA	2007	108671833.0		72
150	CHA	2008	121189332.0	89	89
151	CHA	2009	96068500.0	79	79
152	CHA	2010	105530000.0	88	88
153	CHA	2011	127789000.0	79	79
154	CHA	2012	96919500.0	85	85
155	CHA	2013	120065277.0	63	63
156	CHA	2014	81830500.0	73	73
157	CHN	1985	12702917.0	77	77
158	CHN	1986	17208165.0	70	70
159	CHN	1987	14307999.0	76 	76
160	CHN	1988	13119198.0	77	77
161	CHN	1989	10668000.0	93	93
162	CHN	1990	13624000.0	77	77
163	CHN	1991	23175667.0	77	77
164	CHN	1992	29829686.0	78	78
165	CHN	1993	39386666.0	84	84
166	CHN	1994	36287333.0	49	49
167	CHN	1995	29505834.0	73	73
168	CHN	1996	33081000.0	76	76
169	CHN	1997	42155333.0	68	68
170	CHN	1998	50838000.0	90	90
171	CHN	1999	62343000.0	67	67
172	CHN	2000	60539333.0	65	65
173	CHN	2001	64715833.0	88	88
174	CHN	2002	75690833.0	67	67

175	CHN	2003	79868333.0	88	88
176	CHN	2004	90560000.0	89	89
177	CHN	2005	87032933.0	79	79
178	CHN	2006	94424499.0	66	66
179	CHN	2007	99670332.0	85	85
180	CHN	2008	118345833.0	97	97
181	CHN	2009	134809000.0	83	83
182	CHN	2010	146609000.0	75	75
183	CHN	2011	125047329.0	71	71
184	CHN	2012	88197033.0	61	61
185	CHN	2013	100567726.0	66	66
186	CHN	2014	65522500.0	73	73
187	CIN	1985	8359917.0	89	89
188	CIN	1986	11906388.0	86	86
189	CIN	1987	9281500.0	84	84
190	CIN	1988	8888409.0	87	87
191	CIN	1989	11072000.0	75	75
192	CIN	1909	14370000.0	91	91
193	CIN	1991	26305333.0	74	74
194	CIN	1992	35931499.0	90	90
195	CIN	1993	44879666.0	73	73
196	CIN	1994	40961833.0	66	66
197	CIN	1995	43144670.0	85	85
198	CIN	1996	42526334.0	81	81
199	CIN	1997	49768000.0	76	76
200	CIN	1998	23005000.0	77	77
201	CIN	1999	33962761.0	96	96
202	CIN	2000	46867200.0	85	85
203	CIN	2001	48986000.0	66	66
204	CIN	2002	45050390.0	78	78
205	CIN	2002	59355667.0	69	69
206	CIN	2003	46615250.0	76	76
207	CIN	2004	61892583.0	73	70 73
208	CIN	2006	60909519.0	80	80
209	CIN	2007	68524980.0	72	72
210	CIN	2008	74117695.0	74	74
211	CIN	2009	73558500.0	78	78
212	CIN	2010	71761542.0	91	91
213	CIN	2011	75947134.0	79	79
214	CIN	2012	82203616.0	97	97
215	CIN	2013	106404462.0	90	90
216	CIN	2014	108217500.0	76	76
217	CLE	1985	6551666.0	60	60
218	CLE	1986	7809500.0	84	84
219	CLE	1987	8513750.0	61	61
220	CLE	1988	8936500.0	78	78
221	CLE	1989	9094500.0	73	73
222	CLE	1909	14487000.0	73 77	73 77
223	CLE	1991	17635000.0	57 76	57 76
224	CLE	1992	9373044.0	76	76

225 226 227 228 229 230 231 232	CLE CLE CLE CLE CLE CLE CLE	1993 1994 1995 1996 1997 1998 1999 2000	18561000.0 30490500.0 37937835.0 48107360.0 56802460.0 60800166.0 72978462.0 75880771.0	76 66 100 99 86 89 97	76 66 100 99 86 89 97
233	CLE	2001	93152001.0	91	91
234	CLE	2002	78909449.0	74	74
235	CLE	2003	48584834.0	68	68
236	CLE	2004	34319300.0	80	80
237	CLE	2005	41502500.0	93	93
238	CLE	2006	56031500.0	78	78
239	CLE	2007	61673267.0	96	96
240	CLE	2008	78970066.0	81	81
241	CLE	2009	81579166.0	65	65
242	CLE	2010	61203966.0	69	69
243	CLE	2011	48776566.0	80	80
244	CLE	2012	78430300.0	68	68
245	CLE	2013	75771800.0	92	92
246	CLE	2014	82151899.0	85	85
247	COL	1993	10353500.0	67	67
248	COL	1994	23887333.0	53	53
249	COL	1995	34154717.0	77	77
250	COL	1996	40179823.0	83	83
251	COL	1997	43559667.0	83	83
252	COL	1998	50484648.0	77	77
253 254 255	COL COL	1999 2000 2001	61935837.0 61111190.0 71541334.0	72 82 73	72 82 73
256 257 258	COL	2002 2003 2004	56851043.0 67179667.0 65445167.0	73 74	73 74
258 259 260	COL COL	2004 2005 2006	47839000.0 41233000.0	68 67 76	68 67 76
261	COL	2007	54041000.0	90	90
262	COL	2008	68655500.0	74	74
263	COL	2009	75201000.0	92	92
264	COL	2010	84227000.0	83	83
265	COL	2011	88148071.0	73	73
266	COL	2012	78069571.0	64	64
267	COL	2013	74409071.0	74	74
268	COL	2014	95403500.0	66	66
269	DET	1985	10348143.0	84	84
270	DET	1986	12335714.0	87	87
<ul><li>271</li><li>272</li><li>273</li><li>274</li></ul>	DET	1987	12122881.0	98	98
	DET	1988	12869571.0	88	88
	DET	1989	15146404.0	59	59
	DET	1990	17593238.0	79	79

275         DET         1991         23838333.0         84         84           276         DET         1992         27322834.0         75         75           277         DET         1993         38159165.0         85         85           278         DET         1994         41446501.0         53         53           279         DET         1995         37044168.0         60         60         60           280         DET         1996         23438000.0         53         53         53           281         DET         1997         17272000.0         79         79         79           282         DET         1998         24065900.0         65         65         65           283         DET         1999         36489660.0         69         69         69           284         DET         2001         53416167.0         79         79         79           285         DET         2002         55408900.0         55         55         55           287         DET         2003         34016800.0         72         72         72           289         DET         2005						
276         DET         1992         27322834.0         75         75           277         DET         1993         38150165.0         85         85           278         DET         1994         41446591.0         53         53           279         DET         1995         37044168.0         60         60         60           280         DET         1996         23438000.0         53         53           281         DET         1997         17272000.0         79         79           282         DET         1999         36489666.0         69         69         69           284         DET         2000         58265167.0         79         79         79           285         DET         2001         53416167.0         66         66         66           286         DET         2002         55048000.0         55         55         55           287         DET         2004         46832000.0         72         72         72           288         DET         2004         46832000.0         72         72         72           289         DET         2004         4832000	275	DET	1001	22020222 U	0.4	0.4
277         DET         1993         38159165.0         85         85           278         DET         1994         41446501.0         53         53           279         DET         1995         37044168.0         60         60         60           280         DET         1996         23438000.0         53         53         53           281         DET         1997         17272000.0         79         79         79           282         DET         1998         24665000.0         65         65         65           283         DET         1999         36489666.0         69         69         69           284         DET         2000         58265167.0         79         79         79           285         DET         2001         53416167.0         66         66         66           286         DET         2003         49168800.0         55         55         55         55           287         DET         2003         49168800.0         72         72         72         22         72         22         72         72         72         72         72         72         7						
278         DET         1994         41446501.0         53         53           279         DET         1996         23438000.0         53         53           281         DET         1997         17272000.0         79         79         79           282         DET         1998         24065000.0         65         65         65           283         DET         1999         36489666.0         69         69         69           284         DET         2000         58265167.0         79         79         79           285         DET         2001         53416167.0         66         66         66           286         DET         2002         55948000.0         55         55         55           287         DET         2002         55948000.0         72         72         72           288         DET         2004         46832000.0         72         72         72         289           DET         2005         69092000.0         71         71         71         71           290         DET         2006         82612866.0         95         95         95         95						
279         DET         1995         37044168.0         60         60           280         DET         1996         23438000.0         53         53           281         DET         1997         17272000.0         79         79           282         DET         1998         24065000.0         65         65           283         DET         1999         36489666.0         69         69           284         DET         2000         58265167.0         79         79           285         DET         2001         53416167.0         66         66         66           286         DET         2002         5548800.0         55         55           287         DET         2003         49168000.0         72         72         72           289         DET         2005         69092000.0         71         71         71           290         DET         2006         82612866.0         95         95         95           291         DET         2006         82612866.0         95         95         95           291         DET         2008         137685145.0         86 <td< td=""><td>277</td><td>DET</td><td>1993</td><td>38150165.0</td><td>85</td><td>85</td></td<>	277	DET	1993	38150165.0	85	85
279         DET         1995         37044168.0         60         60           280         DET         1996         23438000.0         53         53           281         DET         1997         17272000.0         79         79           282         DET         1998         24065000.0         65         65           283         DET         1999         36489666.0         69         69           284         DET         2000         58265167.0         79         79           285         DET         2001         53416167.0         66         66         66           286         DET         2002         5948000.0         55         55           287         DET         2003         49168000.0         72         72         72           289         DET         2005         69092000.0         71         71         71           290         DET         2006         82612866.0         95         95         95           291         DET         2006         82612866.0         95         95         95           291         DET         2008         137685145.0         86 <td< td=""><td>278</td><td>DET</td><td>1994</td><td>41446501.0</td><td>53</td><td>53</td></td<>	278	DET	1994	41446501.0	53	53
280 DET 1996 23438000.0 53 53 53 53 281 DET 1997 17272000.0 79 79 79 282 DET 1998 24065000.0 65 65 65 65 283 DET 1999 36489666.0 69 69 284 DET 2000 58265167.0 79 79 79 285 DET 2001 53416167.0 66 66 66 286 DET 2002 55048000.0 55 55 55 287 DET 2003 49168000.0 43 43 43 288 DET 2004 46832000.0 72 72 72 289 DET 2005 69092000.0 71 71 71 290 DET 2006 82612866.0 95 95 95 95 291 DET 2007 94800369.0 88 88 88 292 DET 2008 137685196.0 74 74 74 294 DET 2010 122864928.0 81 88 293 DET 2010 122864928.0 81 88 294 DET 2011 105700231.0 95 95 95 295 DET 2011 105700231.0 95 95 295 DET 2013 145989500.0 88 88 88 297 DET 2013 145989500.0 93 93 93 298 DET 2014 152855500.0 90 90 90 299 FLO 1994 21633000.0 51 301 FLO 1994 21633000.0 51 301 FLO 1995 24515781.0 67 67 67 67 67 67 308 FLO 1999 1805000.0 79 79 79 307 FLO 2001 19872000.0 79 79 79 309 FLO 2003 4945000.0 91 91 91 310 FLO 1995 24515781.0 67 67 67 67 67 79 79 79 309 FLO 2003 4945000.0 91 91 91 310 FLO 1998 41322667.0 54 54 54 54 54 54 54 54 54 54 54 54 54				37044168 0		
281 DET 1997 17272000.0 79 79 79 282 DET 1998 24065000.0 65 65 65 65 283 DET 1999 36489666.0 69 69 284 DET 2000 58265167.0 79 79 285 DET 2001 53416167.0 66 66 66 66 66 286 DET 2002 55048000.0 55 55 55 287 DET 2003 49168000.0 43 43 43 288 DET 2004 46832000.0 72 72 72 289 DET 2005 69092000.0 71 71 71 290 DET 2005 69092000.0 71 71 71 290 DET 2006 82612866.0 95 95 95 291 DET 2008 137685196.0 74 74 74 293 DET 2008 137685196.0 74 74 74 293 DET 2010 122864928.0 81 81 81 295 DET 2010 122864928.0 81 81 81 295 DET 2011 105700231.0 95 95 296 DET 2012 132300000.0 88 88 88 88 297 DET 2014 15285500.0 93 93 93 298 DET 2014 15285500.0 90 90 90 299 FLO 1994 21633000.0 51 51 51 51 301 FLO 1994 21633000.0 51 51 51 301 FLO 1994 21633000.0 51 51 51 301 FLO 1994 2163200.0 80 80 80 80 80 80 80 80 80 80 80 80 80						
282 DET 1998 24965000.0 65 65 65 65 283 DET 1999 36489666.0 69 69 69 69 284 DET 2000 58265167.0 79 79 79 285 DET 2001 53416167.0 66 66 66 66 286 DET 2002 55048000.0 55 55 55 287 DET 2003 49168000.0 43 43 43 288 DET 2004 46832000.0 72 72 72 289 DET 2006 82612866.0 95 95 95 95 95 95 95 95 95 95 95 95 95						
283         DET         1999         36489666.0         69         69           284         DET         2000         58265167.0         79         79         79           285         DET         2001         53416167.0         66         66         66           286         DET         2002         55048000.0         55         55           287         DET         2003         49168000.0         72         72         72           288         DET         2004         48832000.0         72         72         72           289         DET         2005         69092000.0         71         71         71           290         DET         2006         82612866.0         95         95         95           291         DET         2007         94809369.0         88         88         88           292         DET         2009         115085145.0         86         86         86           294         DET         2010         122864928.0         81         81         81           295         DET         2011         195085145.0         86         88         88           297						
284         DET         2000         58265167.0         79         79           285         DET         2001         53416167.0         66         66           286         DET         2002         55648000.0         55         55           287         DET         2003         49168000.0         72         72         72           289         DET         2005         69092000.0         71         71         71           290         DET         2006         82612866.0         95         95           291         DET         2007         94800369.0         88         88           292         DET         2008         137685196.0         74         74         74           293         DET         2009         115085145.0         86         86         86           294         DET         2010         122864928.0         81         81         81           295         DET         2011         1233000000.0         88         88         88           297         DET         2013         145989500.0         93         93         93           298         DET         2014         1						
285         DET         2001         53416167.0         66         66           286         DET         2002         55048000.0         55         55           287         DET         2003         49168000.0         43         43           288         DET         2004         46832000.0         72         72           289         DET         2006         82612866.0         95         95           291         DET         2008         137685196.0         74         74         74           293         DET         2009         115085145.0         86         86         86           294         DET         2010         122864928.0         81         81         81           295         DET         2011         162760231.0         95         95         95           296         DET         2012         132300000.0         93         93	283	DET	1999	36489666.0	69	69
285         DET         2001         53416167.0         66         66           286         DET         2002         55048000.0         55         55           287         DET         2003         49168000.0         43         43           288         DET         2004         46832000.0         72         72           289         DET         2006         82612866.0         95         95           291         DET         2008         137685196.0         74         74         74           293         DET         2009         115085145.0         86         86         86           294         DET         2010         122864928.0         81         81         81           295         DET         2011         162760231.0         95         95         95           296         DET         2012         132300000.0         93         93	284	DET	2000	58265167.0	79	79
286         DET         2002         55048000.0         55         55           287         DET         2003         49168000.0         43         43         43           288         DET         2004         46832000.0         72         72         72           289         DET         2005         69092000.0         71         71         71           290         DET         2006         82612866.0         95         95         95           291         DET         2007         94800369.0         88         88         88           292         DET         2008         137685196.0         74         74         74           293         DET         2009         115085145.0         86         86         86           294         DET         2010         122864928.0         81         81         81           295         DET         2011         165700231.0         95         95         95           296         DET         2012         132300000.0         93         93         93           298         DET         2014         152855500.0         90         90         90 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
287 DET 2003 49168000.0 43 43 28 288 DET 2004 46832000.0 72 72 72 72 72 289 DET 2005 69092000.0 71 71 71 290 DET 2006 82612866.0 95 95 95 95 291 DET 2007 94800369.0 88 88 88 88 292 DET 2008 137685196.0 74 74 74 293 DET 2009 115085145.0 86 86 86 294 DET 2010 122864928.0 81 81 81 295 DET 2011 105700231.0 95 95 296 DET 2012 132300000.0 88 88 88 297 DET 2011 105700231.0 95 95 296 DET 2012 132300000.0 88 88 88 297 DET 2014 152855500.0 93 93 298 DET 2014 152855500.0 90 90 299 FLO 1993 19330545.0 64 64 64 300 FLO 1994 21633000.0 51 51 51 301 FLO 1995 24515781.0 67 67 67 302 FLO 1996 31022500.0 80 80 80 80 80 80 80 80 80 80 80 80 80						
288         DET         2004         46832000.0         72         72           289         DET         2005         69092000.0         71         71           290         DET         2006         82612866.0         95         95           291         DET         2007         94800369.0         88         88           292         DET         2008         137685196.0         74         74           293         DET         2009         115085145.0         86         86           294         DET         2010         122864928.0         81         81           295         DET         2011         105700231.0         95         95           296         DET         2012         132300000.0         93         93           297         DET         2013         145985500.0         90         90         90           299         FLO         1993         19330545.0         64         64         64           300         FLO         1994         21633000.0         51         51         51           301         FLO         1995         24515781.0         67         67         67     <						
289         DET         2005         69092000.0         71         71           290         DET         2006         82612866.0         95         95           291         DET         2007         94800369.0         88         88           292         DET         2008         137685196.0         74         74           293         DET         2009         115085145.0         86         86           294         DET         2010         122864928.0         81         81           295         DET         2011         105700231.0         95         95           296         DET         2012         132300000.0         88         88           297         DET         2013         145989500.0         93         93           298         DET         2014         152855500.0         90         90           299         FLO         1993         19330545.0         64         64           300         FLO         1994         21633000.0         51         51           301         FLO         1996         31022500.0         80         80           303         FLO         1997						
290         DET         2006         82612866.0         95         95           291         DET         2007         94800369.0         88         88           292         DET         2008         137685196.0         74         74           293         DET         2009         115085145.0         86         86           294         DET         2010         122864928.0         81         81           295         DET         2011         105700231.0         95         95           296         DET         2012         132300000.0         88         88           297         DET         2013         145989500.0         93         93           298         DET         2014         152855500.0         90         90           299         FLO         1993         19330545.0         64         64           300         FLO         1994         21633000.0         51         51           301         FLO         1995         24515781.0         67         67           302         FLO         1996         31022500.0         80         80           303         FLO         1999						
291         DET         2007         94800369.0         88         88           292         DET         2008         137685196.0         74         74           293         DET         2009         115085145.0         86         86           294         DET         2010         122864928.0         81         81           295         DET         2011         105700231.0         95         95           296         DET         2012         132300000.0         88         88           297         DET         2013         145989500.0         93         93           298         DET         2014         152855500.0         90         90         90           299         FLO         1993         19330545.0         64         64         64           300         FLO         1994         21633000.0         51         51         51           301         FLO         1995         24515781.0         67         67         67           302         FLO         1996         31022500.0         80         80         80           303         FLO         1997         48692500.0         54	289	DET	2005	69092000.0	71	71
291         DET         2007         94800369.0         88         88           292         DET         2008         137685196.0         74         74           293         DET         2009         115085145.0         86         86           294         DET         2010         122864928.0         81         81           295         DET         2011         105700231.0         95         95           296         DET         2012         132300000.0         88         88           297         DET         2013         145989500.0         93         93           298         DET         2014         152855500.0         90         90         90           299         FLO         1993         19330545.0         64         64         64           300         FLO         1994         21633000.0         51         51         51           301         FLO         1995         24515781.0         67         67         67           302         FLO         1996         31022500.0         80         80         80           303         FLO         1997         48692500.0         54	290	DET	2006	82612866.0	95	95
292         DET         2008         137685196.0         74         74           293         DET         2009         115085145.0         86         86           294         DET         2010         122864928.0         81         81           295         DET         2011         105700231.0         95         95           296         DET         2012         132300000.0         88         88           297         DET         2013         145989500.0         93         93           298         DET         2014         152855500.0         90         90         90           299         FLO         1993         19330545.0         64         64         64           300         FLO         1994         21633000.0         51         51         51           301         FLO         1995         24515781.0         67         67         367           302         FLO         1996         31022500.0         80         80         80           303         FLO         1997         48692500.0         92         92         92           304         FLO         1998         41322667.0						
293         DET         2009         115085145.0         86         86           294         DET         2010         122864928.0         81         81           295         DET         2011         105700231.0         95         95           296         DET         2012         1323000000.0         88         88           297         DET         2013         145989500.0         93         93           298         DET         2014         152855500.0         90         90           299         FLO         1993         19330545.0         64         64           300         FLO         1994         21633000.0         51         51           301         FLO         1995         24515781.0         67         67           302         FLO         1996         31022500.0         80         80           303         FLO         1997         48692500.0         92         92         92           304         FLO         1998         41322667.0         54         54         54           305         FLO         1999         21085000.0         79         79         79						
294         DET         2010         122864928.0         81         81           295         DET         2011         105700231.0         95         95           296         DET         2012         132300000.0         88         88           297         DET         2013         145989500.0         93         93           298         DET         2014         152855500.0         90         90           299         FLO         1993         19330545.0         64         64           300         FLO         1994         21633000.0         51         51           301         FLO         1995         24515781.0         67         67           302         FLO         1996         31022500.0         80         80           303         FLO         1997         48692500.0         92         92           304         FLO         1998         41322667.0         54         54           305         FLO         1999         21085000.0         64         64           306         FLO         2000         19872000.0         79         79           307         FLO         2001						
295         DET         2011         105700231.0         95         95           296         DET         2012         132300000.0         88         88           297         DET         2013         145989500.0         93         93           298         DET         2014         152855500.0         90         90           299         FLO         1993         19330545.0         64         64           300         FLO         1994         21633000.0         51         51           301         FLO         1995         24515781.0         67         67           302         FLO         1996         31022500.0         80         80           303         FLO         1997         48692500.0         92         92           304         FLO         1998         41322667.0         54         54           305         FLO         1999         21085000.0         79         79           307         FLO         2000         19872000.0         79         79           307         FLO         2001         35762500.0         76         76           308         FLO         2002						
296         DET         2012         132300000.0         88         88           297         DET         2013         145989500.0         93         93           298         DET         2014         152855500.0         90         90           299         FL0         1993         19330545.0         64         64           300         FL0         1994         21633000.0         51         51           301         FL0         1995         24515781.0         67         67           302         FL0         1996         31022500.0         80         80           303         FL0         1997         48692500.0         92         92           304         FL0         1998         41322667.0         54         54           305         FL0         1999         21085000.0         64         64           306         FL0         2000         19872000.0         79         79           307         FL0         2001         35762500.0         76         76           308         FL0         2002         41979917.0         79         79           309         FL0         2003						
297         DET         2013         145989500.0         93         93           298         DET         2014         152855500.0         90         90           299         FLO         1993         19330545.0         64         64           300         FLO         1994         21633000.0         51         51           301         FLO         1995         24515781.0         67         67           302         FLO         1996         31022500.0         80         80           303         FLO         1997         48692500.0         92         92           304         FLO         1998         41322667.0         54         54           305         FLO         1999         21085000.0         79         79         79           307         FLO         2000         19872000.0         79         79         79           308         FLO         2001         35762500.0         76         76         76           308         FLO         2002         41979917.0         79         79         79           309         FLO         2003         49450000.0         91         91         <	295	DET	2011	105700231.0		
298         DET         2014         152855500.0         90         90           299         FL0         1993         19330545.0         64         64           300         FL0         1994         21633000.0         51         51           301         FL0         1995         24515781.0         67         67           302         FL0         1996         31022500.0         80         80           303         FL0         1997         48692500.0         92         92           304         FL0         1998         41322667.0         54         54           305         FL0         1999         21085000.0         64         64           306         FL0         2000         19872000.0         79         79           307         FL0         2001         35762500.0         76         76         76           308         FL0         2002         41979917.0         79         79         79           309         FL0         2001         35762500.0         76         76         76           308         FL0         2004         42143042.0         83         83         83	296	DET	2012	132300000.0	88	88
298         DET         2014         152855500.0         90         90           299         FL0         1993         19330545.0         64         64           300         FL0         1994         21633000.0         51         51           301         FL0         1995         24515781.0         67         67           302         FL0         1996         31022500.0         80         80           303         FL0         1997         48692500.0         92         92           304         FL0         1998         41322667.0         54         54           305         FL0         1999         21085000.0         64         64           306         FL0         2000         19872000.0         79         79           307         FL0         2001         35762500.0         76         76         76           308         FL0         2002         41979917.0         79         79         79           309         FL0         2001         35762500.0         76         76         76           308         FL0         2004         42143042.0         83         83         83	297	DET	2013	145989500.0	93	93
299       FL0       1993       19330545.0       64       64         300       FL0       1994       21633000.0       51       51         301       FL0       1995       24515781.0       67       67         302       FL0       1996       31022500.0       80       80         303       FL0       1997       48692500.0       92       92         304       FL0       1998       41322667.0       54       54         305       FL0       1999       2108500.0       64       64         306       FL0       2000       19872000.0       79       79         307       FL0       2001       35762500.0       76       76         308       FL0       2002       41979917.0       79       79         309       FL0       2003       49450000.0       91       91       91         310       FL0       2004       42143042.0       83       83       83         311       FL0       2005       60408834.0       83       83       83         312       FL0       2006       14671500.0       78       78       78 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
300       FL0       1994       21633000.0       51       51         301       FL0       1995       24515781.0       67       67         302       FL0       1996       31022500.0       80       80         303       FL0       1997       48692500.0       92       92         304       FL0       1998       41322667.0       54       54         305       FL0       1999       21085000.0       64       64         306       FL0       2000       19872000.0       79       79         307       FL0       2001       35762500.0       76       76         308       FL0       2002       41979917.0       79       79         309       FL0       2003       49450000.0       91       91         310       FL0       2004       42143042.0       83       83         311       FL0       2005       60408834.0       83       83         312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71       71         314       FL0       2008						
301 FL0 1995 24515781.0 67 302 FL0 1996 31022500.0 80 303 FL0 1997 48692500.0 92 304 FL0 1998 41322667.0 54 305 FL0 1999 21085000.0 64 306 FL0 2000 19872000.0 79 307 FL0 2001 35762500.0 76 308 FL0 2002 41979917.0 79 309 FL0 2003 49450000.0 91 310 FL0 2004 42143042.0 83 311 FL0 2005 60408834.0 83 312 FL0 2006 14671500.0 78 313 FL0 2007 30507000.0 71 314 FL0 2008 21811500.0 84 315 FL0 2009 36834000.0 87 316 FL0 2010 57029719.0 80 317 FL0 2011 56944000.0 72 318 H0U 1985 9993051.0 83 319 H0U 1986 9873276.0 96 320 H0U 1987 12608371.0 76 321 H0U 1988 12286167.0 82 322 H0U 1989 15029500.0 86 323 H0U 1990 18330000.0 75						
302       FL0       1996       31022500.0       80       80         303       FL0       1997       48692500.0       92       92         304       FL0       1998       41322667.0       54       54         305       FL0       1999       21085000.0       64       64         306       FL0       2000       19872000.0       79       79         307       FL0       2001       35762500.0       76       76         308       FL0       2002       41979917.0       79       79         309       FL0       2003       49450000.0       91       91         310       FL0       2004       42143042.0       83       83         311       FL0       2005       60408834.0       83       83         312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0<						
303         FL0         1997         48692500.0         92         92           304         FL0         1998         41322667.0         54         54           305         FL0         1999         21085000.0         64         64           306         FL0         2000         19872000.0         79         79           307         FL0         2001         35762500.0         76         76           308         FL0         2002         41979917.0         79         79           309         FL0         2003         49450000.0         91         91           310         FL0         2004         42143042.0         83         83           311         FL0         2005         60408834.0         83         83           312         FL0         2006         14671500.0         78         78           313         FL0         2007         30507000.0         71         71         71           314         FL0         2008         21811500.0         84         84           315         FL0         2009         36834000.0         87         87           316         FL0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
304       FL0       1998       41322667.0       54       54         305       FL0       1999       21085000.0       64       64         306       FL0       2000       19872000.0       79       79         307       FL0       2001       35762500.0       76       76         308       FL0       2002       41979917.0       79       79         309       FL0       2003       49450000.0       91       91         310       FL0       2004       42143042.0       83       83         311       FL0       2005       60408834.0       83       83         312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       H0U       1985       9993051.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
305         FL0         1999         21085000.0         64         64           306         FL0         2000         19872000.0         79         79           307         FL0         2001         35762500.0         76         76           308         FL0         2002         41979917.0         79         79           309         FL0         2003         49450000.0         91         91           310         FL0         2004         42143042.0         83         83           311         FL0         2005         60408834.0         83         83           312         FL0         2006         14671500.0         78         78           313         FL0         2007         30507000.0         71         71           314         FL0         2008         21811500.0         84         84           315         FL0         2009         36834000.0         87         87           316         FL0         2010         57029719.0         80         80           317         FL0         2011         56944000.0         72         72           318         H0U         1985		FL0				
306       FL0       2000       19872000.0       79       79         307       FL0       2001       35762500.0       76       76         308       FL0       2002       41979917.0       79       79         309       FL0       2003       49450000.0       91       91         310       FL0       2004       42143042.0       83       83         311       FL0       2005       60408834.0       83       83         312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1988       12286167.0 <td>304</td> <td>FL0</td> <td>1998</td> <td>41322667.0</td> <td>54</td> <td>54</td>	304	FL0	1998	41322667.0	54	54
306       FL0       2000       19872000.0       79       79         307       FL0       2001       35762500.0       76       76         308       FL0       2002       41979917.0       79       79         309       FL0       2003       49450000.0       91       91         310       FL0       2004       42143042.0       83       83         311       FL0       2005       60408834.0       83       83         312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1988       12286167.0 <td>305</td> <td>FL0</td> <td>1999</td> <td>21085000.0</td> <td>64</td> <td>64</td>	305	FL0	1999	21085000.0	64	64
307       FL0       2001       35762500.0       76       76         308       FL0       2002       41979917.0       79       79         309       FL0       2003       49450000.0       91       91         310       FL0       2004       42143042.0       83       83         311       FL0       2005       60408834.0       83       83         312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
308       FL0       2002       41979917.0       79       79         309       FL0       2003       49450000.0       91       91         310       FL0       2004       42143042.0       83       83         311       FL0       2005       60408834.0       83       83         312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1989       15029500.0       86       86         323       HOU       1989       15029500.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
309       FL0       2003       49450000.0       91       91         310       FL0       2004       42143042.0       83       83         311       FL0       2005       60408834.0       83       83         312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
310       FL0       2004       42143042.0       83       83         311       FL0       2005       60408834.0       83       83         312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75						
311       FL0       2005       60408834.0       83       83         312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1989       15029500.0       86       86         323       HOU       1989       15029500.0       75       75						
312       FL0       2006       14671500.0       78       78         313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75						
313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75	311	FL0	2005	60408834.0	83	83
313       FL0       2007       30507000.0       71       71         314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75	312	FL0	2006	14671500.0	78	78
314       FL0       2008       21811500.0       84       84         315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75	313	FI O	2007	30507000.0	71	71
315       FL0       2009       36834000.0       87       87         316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75						
316       FL0       2010       57029719.0       80       80         317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75						
317       FL0       2011       56944000.0       72       72         318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75						
318       HOU       1985       9993051.0       83       83         319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75						
319       HOU       1986       9873276.0       96       96         320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75						
320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75	318	HOU	1985	9993051.0	83	83
320       HOU       1987       12608371.0       76       76         321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75	319	HOU	1986	9873276.0	96	96
321       HOU       1988       12286167.0       82       82         322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75						
322       HOU       1989       15029500.0       86       86         323       HOU       1990       18330000.0       75       75						
323 HOU 1990 18330000.0 75 75						
324 HUU 1991 12852500.0 65						
	324	HUU	1991	12852500.0	05	65

325	HOU	1992	15407500.0	81	81
326	HOU	1993	30210500.0	85	85
327	HOU	1994	33126000.0	66	66
328	HOU	1995	34169834.0	76	76
329	HOU	1996	28487000.0	82	82
330	HOU	1997	34777500.0	84	84
331	HOU	1997	42374000.0	102	102
332	HOU		54914000.0	97	97
		1999			
333	HOU	2000	51289111.0	72	72
334	HOU	2001	60612667.0	93	93
335	HOU	2002	63448417.0	84	84
336	HOU	2003	71040000.0	87	87
337	HOU	2004	75397000.0	92	92
338	HOU	2005	76779000.0	89	89
339	HOU	2006	88694435.0	82	82
340	HOU	2007	87759000.0	73	73
341	HOU	2008	88930414.0	86	86
342	HOU	2009	102996414.0	74	74
343	HOU	2010	92355500.0	76	76
344	HOU	2011	70694000.0	56	56
345	HOU	2012	60651000.0	55	55
346	HOU	2013	17890700.0	51	51
347	HOU	2014	35116300.0	70	70
348	KCA	1985	9321179.0	91	91
349	KCA	1986	13043698.0	76	76
350	KCA	1987	11828056.0	83	83
351	KCA	1988	14556562.0	84	84
352	KCA	1989	18683568.0	92	92
353	KCA	1990	23361084.0	75	75
354	KCA	1991	26319834.0	82	82
355	KCA	1992	33893834.0	72	72
356	KCA	1993	41346167.0	84	84
357	KCA	1994	40541334.0	64	64
358	KCA	1995	29532834.0	70	70
		1995			
359	KCA		20281250.0	75 67	75 67
360	KCA	1997	34655000.0	67 72	67 72
361	KCA	1998	36862500.0	72	72
362	KCA	1999	26225000.0	64	64
363	KCA	2000	23433000.0	77	77
364	KCA	2001	35422500.0	65	65
365	KCA	2002	47257000.0	62	62
366	KCA	2003	40518000.0	83	83
367	KCA	2004	47609000.0	58	58
368	KCA	2005	36881000.0	56	56
369	KCA	2006	47294000.0	62	62
370	KCA	2007	67116500.0	69	69
371	KCA	2008	58245500.0	75	75
372	KCA	2009	70519333.0	65	65
373	KCA	2010	71405210.0	67	67
374	KCA	2011	35712000.0	71	71
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375	KCA	2012	60916225.0	72	72
376	KCA	2013	80091725.0	86	86
377	KCA	2014	74594075.0	89	89
378	LAA	2005	94867822.0	95	95
379	LAA	2006	103472000.0	89	89
380	LAA	2007	109251333.0	94	94
381	LAA	2008	119216333.0	100	100
382	LAA	2009	113709000.0	97	97
383	LAA	2010	104963866.0	80	80
384	LAA	2011	138543166.0	86	86
385	LAA	2012	154485166.0	89	89
386	LAA	2013	124174750.0	78	78
387		2013	121988250.0	98	98
	LAA				
388	LAN	1985	10967917.0	95	95
389	LAN	1986	14913776.0	73	73
390	LAN	1987	13675403.0	73	73
391	LAN	1988	16850515.0	94	94
392	LAN	1989	21071562.0	77	77
393	LAN	1990	21318704.0	86	86
394	LAN	1991	32790664.0	93	93
395	LAN	1992	44788166.0	63	63
396	LAN	1993	39331999.0	81	81
397	LAN	1994	38000001.0	58	58
	LAN	1994	39273201.0	78	78
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399	LAN	1996	35355000.0	90	90
400	LAN	1997	45380304.0	88	88
401	LAN	1998	48820000.0	83	83
402	LAN	1999	80862453.0	77	77
403	LAN	2000	87924286.0	86	86
404	LAN	2001	109105953.0	86	86
405	LAN	2002	94850953.0	92	92
406	LAN	2003	105572620.0	85	85
407	LAN	2004	92902001.0	93	93
408	LAN	2005	83039000.0	71	71
409	LAN	2005	98447187.0	88	88
410	LAN	2007	108454524.0	82	82
				84	
411	LAN	2008	118588536.0		84
412	LAN	2009	100414592.0	95	95
413	LAN	2010	95358016.0	80	80
414	LAN	2011	104188999.0	82	82
415	LAN	2012	95143575.0	86	86
416	LAN	2013	223362196.0	92	92
417	LAN	2014	217014600.0	94	94
418	MIA	2012	118078000.0	69	69
419	MIA	2013	33601900.0	62	62
420	MIA	2014	41836900.0	77	77
421	MIL	1998	33914904.0	74	74
422	MIL	1999	43377395.0	74	74
423	MIL	2000	36505333.0	73	73
423 424	MIL	2001	43886833.0	68	
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426	MIL	2003	40627000.0	68	68
427	MIL	2004	27528500.0	67	67
428	MIL	2005	39934833.0	81	81
429	MIL	2006	57568333.0	75	75
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431	MIL	2007	80937499.0	90	90
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435	MIL	2012	97653944.0	83	83
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444	MIN	1991	23361833.0	95	95
445	MIN	1992	28027834.0	90	90
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448	MIN	1995	25410500.0	56	56
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455	MIN	2001	40425000.0	94	94
456	MIN	2002	55505000.0	90	90
457	MIN	2003	53585000.0	92	92
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462	MIN	2009	65299266.0	87	87
463	MIN	2010	97559166.0	94	94
464	MIN	2011	112737000.0	63	63
465	MIN	2012	94085000.0	66	66
466	MIN	2013	75337500.0	66	66
467	MIN	2014	83762500.0	70	70
468	ML4	1985	11284107.0	71	71
469	ML4	1986	9943642.0	77	77
470	ML4	1987	7293224.0	91	91
471	ML4	1988	8402000.0	87	87
472	ML4	1989	11533000.0	81	81
473	ML4	1990	19719167.0	74	74
474	ML4	1991	23115500.0	83	83

475	ML4	1992	31013667.0	92	92
476	ML4	1993	23806834.0	69	69
477	ML4	1994	24350500.0	53	53
478	ML4	1995	17798825.0	65	65
479	ML4	1996	21730000.0	80	80
480	ML4	1997	23655338.0	78	78
481	MON	1985	9470166.0	84	84
482	MON	1986	11103600.0	78	78
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484	MON	1988	9603333.0	81	81
485	MON	1989	13807389.0	81	81
486	MON	1990	16586388.0	85	85
487	MON	1991	10732333.0	71	71
488	MON	1992	15822334.0	87	87
489	MON	1993	18899333.0	94	94
490	MON	1994	19098000.0	74	74
491	MON	1995	12364000.0	66	66
492	MON	1996	16264500.0	88	88
493	MON	1997	19295500.0	78	78
494	MON	1998	10641500.0	65	65
495	MON	1999	17903000.0	68	68
496	MON	2000	32994333.0	67	67
497	MON	2001	35159500.0	68	68
498	MON	2002	38670500.0	83	83
499	MON	2003	51948500.0	83	83
500	MON	2004	40897500.0	67	67
501	NYA	1985	14238204.0	97	97
502	NYA	1986	18494253.0	90	90
503 504	NYA	1987 1988	17099714.0	89 85	89 95
504 505	NYA NYA	1988	19441152.0 17114375.0	74	85 74
505	NYA	1909	20912318.0	67	74 67
507	NYA	1990	27344168.0	71	71
508	NYA	1991	37543334.0	71 76	71 76
509	NYA	1992	42624900.0	88	88
510	NYA	1994	45731334.0	70	70
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512	NYA	1996	54191792.0	92	92
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514	NYA	1998	66806867.0	114	114
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518	NYA	2002	125928583.0	103	103
519	NYA	2003	152749814.0	101	101
520	NYA	2004	184193950.0	101	101
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522	NYA	2006	194663079.0	97	97
523	NYA	2007	189259045.0	94	94
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527	NYA	2011	202275028.0	97	97
528	NYA	2012	196522289.0	95	95
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539	NYN	1993	39043667.0	59	59
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543	NYN	1997	39800400.0	88	88
544	NYN	1998	52077999.0	88	88
545	NYN	1999	65092092.0	97	97
546	NYN	2000	79509776.0	94	94
547	NYN	2001	93174428.0	82	82
548	NYN	2001	94633593.0	75	75
549	NYN	2002	116876429.0	66	66
550	NYN	2003	96660970.0	71	71
551	NYN		101305821.0	83	83
552	NYN	2005	101084963.0	97	97
553		2006 2007	115231663.0	97 88	88
554	NYN	2007	137793376.0	89	
555	NYN NYN	2000	149373987.0	70	89 70
556	NYN	2010	134422942.0	79 77	79 77
557	NYN	2011	118847309.0	77	77
558	NYN	2012	93353983.0	74	74
559	NYN	2013	49448346.0	74	74
560	NYN	2014	30750000.0	79 77	79 77
561	0AK	1985	9058606.0	77	77
562	0AK	1986	9779421.0	76	76
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566	0AK	1990	19887501.0	103	103
567	0AK	1991	36999167.0	84	84
568	0AK	1992	41035000.0	96	96
569	0AK	1993	37812333.0	68	68
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577	0AK	2001	33810750.0	102	102
578	0AK	2002	40004167.0	103	103
579	0AK	2003	50260834.0	96	96
580	0AK	2004	59425667.0	91	91
581	0AK	2005	55425762.0	88	88
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583	0AK	2007	79366940.0	76	76
584	0AK	2008	47967126.0	75	75
585	0AK	2009	61910000.0	75	75
586	0AK	2010	55254900.0	81	81
587	0AK	2011	66536500.0	74	74
588	0AK	2012	55372500.0	94	94
589	0AK	2013	60132500.0	96	96
590	0AK	2014	72408400.0	88	88
591	PHI	1985	10124966.0	75 26	75 96
592	PHI	1986	11590166.0	86	86
593	PHI PHI	1987 1988	11514233.0 13838000.0	80 65	80 65
594 595	PHI	1988	10604000.0	67	65 67
595 596	PHI	1909	13173667.0	77	77
590 597	PHI	1990	22487332.0	7 <i>7</i> 78	77 78
598	PHI	1991	24383834.0	70 70	70 70
599	PHI	1993	28538334.0	97	97
600	PHI	1994	31599000.0	54	54
601	PHI	1995	30555945.0	69	69
602	PHI	1996	34314500.0	67	67
603	PHI	1997	36656500.0	68	68
604	PHI	1998	36297500.0	75	<b>75</b>
605	PHI	1999	31692500.0	77	77
606	PHI	2000	47308000.0	65	65
607	PHI	2001	41663833.0	86	86
608	PHI	2002	57954999.0	80	80
609	PHI	2003	70780000.0	86	86
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611	PHI	2005	95522000.0	88	88
612	PHI	2006	88273333.0	85	85
613	PHI	2007	89428213.0	89	89
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615	PHI	2009	113004046.0	93	93
616	PHI	2010	141928379.0	97	97
617	PHI	2011	172976379.0	102	102
618	PHI	2012	174538938.0	81	81
619	PHI	2013	169863189.0	73	73
620	PHI	2014	180944967.0	73	73 57
621 622	PIT PIT	1985	9227500.0 10843500.0	57 64	57 64
623	PIT	1986 1987	7652000.0	80	80
623 624	PIT	1987	5998500.0	85	85
024	LT!	1300	חי ממרסבבר	ره	65

625	PIT	1989	12737500.0	74	74
626	PIT	1990	15556000.0	95	95
627	PIT	1991	23634667.0	98	98
628	PIT	1992	33944167.0	96	96
629	PIT	1993	24822467.0	75	75
630	PIT	1994	24217250.0	53	53
631	PIT	1995	18355345.0	58	58
632	PIT	1996	23017500.0	73	73
633	PIT	1997	10771667.0	79	79
634	PIT	1998	15065000.0	69	69
635	PIT	1999	24697666.0	78	78
636	PIT	2000	28928334.0	69	69
637	PIT	2001	57760833.0	62	62
638	PIT	2001	42323599.0	72	72
639	PIT	2002	54812429.0	72 75	75
640	PIT	2003	32227929.0	73 72	73 72
641	PIT	2004	38133000.0	67	67
642	PIT	2005	46717750.0	67	67
	PIT		38537833.0	68	68
643 644	PIT	2007 2008			
			48689783.0	67 62	67
645	PIT	2009	48693000.0	62 57	62
646	PIT	2010	34943000.0	57 72	57
647	PIT	2011	45047000.0	72	72
648	PIT	2012	62951999.0	79	79
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650	PIT	2014	77178000.0	88	88
651	SDN	1985	11036583.0	83	83
652	SDN	1986	11380693.0	74	74
653	SDN	1987	11065796.0	65	65
654	SDN	1988	9561002.0	83	83
655	SDN	1989	14195000.0	89	89
656	SDN	1990	17588334.0	75	75
657	SDN	1991	22150001.0	84	84
658	SDN	1992	26854167.0	82	82
659	SDN	1993	25511333.0	61	61
660	SDN	1994	14916333.0	47	47
661	SDN	1995	26382334.0	70	70
662	SDN	1996	28348172.0	91	91
663	SDN	1997	37363672.0	76	76
664	SDN	1998	46861500.0	98	98
665	SDN	1999	49768179.0	74	74
666	SDN	2000	54821000.0	76	76
667	SDN	2001	39182833.0	79	79
668	SDN	2002	41425000.0	66	66
669	SDN	2003	45210000.0	64	64
670	SDN	2004	55384833.0	87	87
671	SDN	2005	63290833.0	82	82
672	SDN	2006	69896141.0	88	88
673	SDN	2007	58110567.0	89	89
674	SDN	2008	73677616.0	63	63
	=	<del>-</del>	· <del>-</del>		

675	SDN	2009	43333700.0	75	75
676	SDN	2010	37799300.0	90	90
677	SDN	2011	45869140.0	71	71
678	SDN	2012	55244700.0	76	76
679	SDN	2013	65585500.0	76	76
680	SDN	2014	75685700.0	77	77
681	SEA	1985	4613000.0	74	74
682	SEA	1986	5958309.0	67	67
683	SEA	1987	2263500.0	78	78
684	SEA	1988	7342450.0	68	68
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685	SEA	1989		73	73
686	SEA	1990	12553667.0	77	77
687	SEA	1991	15691833.0	83	83
688	SEA	1992	23179833.0	64	64
689	SEA	1993	32696333.0	82	82
690	SEA	1994	29228500.0	49	49
691	SEA	1995	36481311.0	79	79
692	SEA	1996	41328501.0	85	85
693	SEA	1997	41540661.0	90	90
694	SEA	1998	54087036.0	76	76
695	SEA	1999	54125003.0	70 79	70 79
696	SEA	2000	58915000.0	91	91
697	SEA	2001	74720834.0	116	116
698	SEA	2002	80282668.0	93	93
699	SEA	2003	86959167.0	93	93
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701	SEA	2005	87754334.0	69	69
702	SEA	2006	87959833.0	78	78
703	SEA	2007	106460833.0	88	88
704	SEA	2008	117666482.0	61	61
705	SEA	2009	98904166.0	85	85
706	SEA	2010	86510000.0	61	61
707	SEA	2011	86110600.0	67	67
708	SEA	2012	81978100.0	75 71	75 71
709	SEA	2013	74005043.0	71	71
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713	SFN	1987	7290000.0	90	90
714	SFN	1988	12380000.0	83	83
715	SFN	1989	14962834.0	92	92
716	SFN	1990	19335333.0	85	85
717	SFN	1991	30967666.0	75	75
718	SFN	1992	33163168.0	72	72
719	SFN	1993	35050000.0	103	103
719	SFN	1993	42638666.0	55	55
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723	SFN	1997	35592378.0	90	90
724	SFN	1998	42565834.0	89	89

725	SFN	1999	46595057.0	86	86
726	SFN	2000	53737826.0	97	97
727	SFN	2001	63280167.0	90	90
728	SFN	2002	78299835.0	95	95
729	SFN	2003	82852167.0	100	100
730	SFN	2004	82019166.0	91	91
731	SFN	2005	90199500.0	75	75
732	SFN	2006	90056419.0	76	76
733	SFN	2007	90219056.0	71	71
734	SFN	2008	76594500.0	72	72
735	SFN	2009	83026450.0	88	88
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737	SFN	2011	118198333.0	86	86
738	SFN	2012	117620683.0	94	94
739	SFN	2013	140180334.0	76	76
740	SFN	2014	20000000.0	88	88
741	SLN	1985	11817083.0	101	101
742	SLN	1986	9875010.0	79	79
743	SLN	1987	11758000.0	95	95
744	SLN	1988	12880000.0	76	76
745	SLN	1989	16078833.0		
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746	SLN	1990	20523334.0	70	70
747	SLN	1991	21860001.0	84	84
748	SLN	1992	27583836.0	83	83
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754	SLN	1998	54672521.0	83	83
755	SLN	1999	49778195.0	75	75
756	SLN	2000	61453863.0	95	95
757	SLN	2001	78538333.0	93	93
758	SLN	2002	74660875.0	97	97
759	SLN	2003	83786666.0	85	85
760	SLN	2004	83228333.0	105	105
761	SLN	2005	92106833.0	100	100
762	SLN	2006	88891371.0	83	83
763	SLN	2007	90286823.0	78	78
764	SLN	2008	99624449.0	86	86
765	SLN	2009	88528409.0	91	91
766	SLN	2010	93540751.0	86	86
767	SLN	2011	105433572.0	90	90
768	SLN	2012	110300862.0	88	88
769	SLN	2013	92260110.0	97	97
770	SLN	2014	120693000.0	90	90
771	TBA	1998	27280000.0	63	63
772	TBA	1999	38870000.0	69	69
773	TBA	2000	62765129.0	69	69
774	TBA	2001	56980000.0	62	62
, , 4	IDA	2001	3030000.0	02	UZ

775	TBA	2002	34380000.0	55	55
776	TBA	2003	19630000.0	63	63
777	TBA	2004	29556667.0	70	70
778	TBA	2005	29679067.0	67	67
779	TBA	2006	34917967.0	61	61
780	TBA	2007	24123500.0	66	66
781	TBA	2007	43820597.0	97	97
781 782	TBA	2009	63313034.0	84	84
783 704	TBA	2010	71923471.0	96	96
784	TBA	2011	41053571.0	91	91
785	TBA	2012	64173500.0	90	90
786	TBA	2013	52955272.0	92	92
787	TBA	2014	72689100.0	77	77
788	TEX	1985	7676500.0	62	62
789	TEX	1986	6743119.0	87	87
790	TEX	1987	880000.0	75	75
791	TEX	1988	5342131.0	70	70
792	TEX	1989	11893781.0	83	83
793	TEX	1990	14874372.0	83	83
794	TEX	1991	18224500.0	85	85
795	TEX	1992	30128167.0	77	77
796	TEX	1993	36376959.0	86	86
797	TEX	1994	32973597.0	52	52
798	TEX	1995	34581451.0	74	74
799	TEX	1996	39041528.0	90	90
800	TEX	1997	53448838.0	77	77
801	TEX	1998	56572095.0	88	88
802	TEX	1999	76709931.0	95	95
803	TEX	2000	70795931.0	71	71
804	TEX	2001	88633500.0	73	73
805	TEX	2002	105526122.0	73 72	72
806	TEX	2002	103491667.0	71	71
807	TEX	2003	55050417.0	89	89
808	TEX	2004	55849000.0	79	79
809	TEX	2006 2007	68228662.0	80	80
810	TEX		68318675.0	75 70	75 70
811	TEX	2008	67712326.0	79	79
812	TEX	2009	68178798.0	87	87
813	TEX	2010	55250544.0	90	90
814	TEX	2011	92299264.0	96	96
815	TEX	2012	120510974.0	93	93
816	TEX	2013	112522600.0	91	91
817	TEX	2014	112255059.0	67	67
818	T0R	1985	8812550.0	99	99
819	T0R	1986	12611047.0	86	86
820	T0R	1987	10479501.0	96	96
821	T0R	1988	12241225.0	87	87
822	T0R	1989	16261666.0	89	89
823	T0R	1990	17756834.0	86	86
824	T0R	1991	19902417.0	91	91

825	T0R	1992	44788666.0	96	96
826	TOR	1993	47279166.0	95	95
827	T0R	1994	43433668.0	55	55
828	T0R	1995	50590000.0	56	56
829	T0R	1996	29555083.0	74	74
830	T0R	1997	47079833.0	76	76
831	T0R	1998	51376000.0	88	88
832	T0R	1999	45444333.0	84	84
833	T0R	2000	44838332.0	83	83
834	T0R	2001	76895999.0	80	80
835	T0R	2002	76864333.0	78	78
836	T0R	2003	51269000.0	86	86
837	T0R	2004	50017000.0	67	67
838	T0R	2005	45719500.0	80	80
839	T0R	2006	71365000.0	87	87
840	T0R	2007	81942800.0	83	83
841	T0R	2008	97793900.0	86	86
842	T0R	2009	80538300.0	75	75
843	T0R	2010	62234000.0	85	85
844	T0R	2011	62567800.0	81	81
845	T0R	2012	75009200.0	73	73
846	TOR	2013	126288100.0	74	74
847	T0R	2014	109920100.0	83	83
848	WAS	2005	48581500.0	81	81
849	WAS	2006	63143000.0	71	71
850	WAS	2007	36947500.0	73	73
851	WAS	2008	54961000.0	59 50	59
852	WAS	2009	59928000.0	59	59
853	WAS	2010	61400000.0	69	69
854	WAS	2011	63856928.0	80	80
855	WAS	2012	80855143.0	98	98
856 857	WAS	2013	113703270.0	86	86
857	WAS	2014	131983680.0	96	96
	win ner	contage			
0		centage 851852			
1		.469136			
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40.123457 61.728395

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38       65.432099         39       63.580247         40       58.641975         41       54.320988         42       62.732919         43       62.345679         44       59.259259         45       55.55556         46       48.765432         47       51.851852         48       44.44444         49       53.086420         50       56.172840         51       54.938272         52       58.024691         53       59.259259         54       48.765432	39       63.580247         40       58.641975         41       54.320988         42       62.732919         43       62.345679         44       59.259259         45       55.55556         46       48.765432         47       51.851852         48       44.44444         49       53.086420         50       56.172840         51       54.938272         52       58.024691         53       59.259259         54       48.765432         55       51.552795         56       45.061728	39       63.580247         40       58.641975         41       54.320988         42       62.732919         43       62.345679         44       59.259259         45       55.55556         46       48.765432         47       51.851852         48       44.44444         49       53.086420         50       56.172840         51       54.938272         52       58.024691         53       59.259259         54       48.765432         55       51.552795         56       45.061728
43 62.345679 44 59.259259 45 55.55556 46 48.765432 47 51.851852 48 44.44444 49 53.086420 50 56.172840 51 54.938272 52 58.024691 53 59.259259	4362.3456794459.2592594555.555564648.7654324751.8518524844.444444953.0864205056.1728405154.9382725258.0246915359.2592595448.7654325551.5527955645.061728	4362.3456794459.2592594555.555564648.7654324751.8518524844.444444953.0864205056.1728405154.9382725258.0246915359.2592595448.7654325551.5527955645.0617285741.3580255833.5403735953.703704
4648.7654324751.8518524844.444444953.0864205056.1728405154.9382725258.0246915359.259259	46 48.765432 47 51.851852 48 44.44444 49 53.086420 50 56.172840 51 54.938272 52 58.024691 53 59.259259 54 48.765432 55 51.552795 56 45.061728	4648.7654324751.8518524844.444444953.0864205056.1728405154.9382725258.0246915359.2592595448.7654325551.5527955645.0617285741.3580255833.5403735953.703704
5056.1728405154.9382725258.0246915359.259259	50       56.172840         51       54.938272         52       58.024691         53       59.259259         54       48.765432         55       51.552795         56       45.061728	50       56.172840         51       54.938272         52       58.024691         53       59.259259         54       48.765432         55       51.552795         56       45.061728         57       41.358025         58       33.540373         59       53.703704
52 58.024691 53 59.259259	52       58.024691         53       59.259259         54       48.765432         55       51.552795         56       45.061728	52       58.024691         53       59.259259         54       48.765432         55       51.552795         56       45.061728         57       41.358025         58       33.540373         59       53.703704
	56 45.061728	56 45.061728 57 41.358025 58 33.540373 59 53.703704

93       49.382716         94       46.956522         95       59.722222         96       52.469136         97       48.148148         98       56.790123         99       58.024691	9446.9565229559.7222229652.4691369748.1481489856.7901239958.02469110052.46913610150.93167710257.407407	9446.9565229559.7222229652.4691369748.1481489856.7901239958.02469110052.46913610150.93167710257.40740710358.64197510460.49382710558.641975	65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92	49.305556 53.987730 60.493827 48.765432 48.148148 45.679012 38.888889 41.358025 43.558282 48.148148 45.679012 43.209877 42.592593 42.236025 39.506173 40.740741 42.592593 57.407407 52.469136 59.259259 49.693252 59.006211 48.148148 54.938272 51.234568 54.320988 51.851852 45.061728
98 56.790123 99 58.024691	98 56.790123 99 58.024691 100 52.469136 101 50.931677 102 57.407407	9856.7901239958.02469110052.46913610150.93167710257.40740710358.64197510460.49382710558.641975	95 96	59.722222 52.469136
	101 50.931677 102 57.407407	10150.93167710257.40740710358.64197510460.49382710558.641975	98 99	56.790123 58.024691
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165 166 167 168 169 170 171	51.533742 43.362832 50.694444 46.913580 41.975309 55.214724 41.358025 40.123457
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184	37.654321
185 186 187 188 189	40.740741 45.061728 54.938272 53.086420 51.851852 54.037267
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210	45.679012
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213	48.765432
214	59.876543

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233       56.172840         234       45.679012         235       41.975309         236       49.382716         237       57.407407         238       48.148148         239       59.259259         240       50.000000         241       40.123457         242       42.592593         243       49.382716         244       41.975309         245       56.790123         246       52.469136         247       41.358025         248       45.299145         249       53.472222         250       51.234568         251       51.234568         252       47.530864         253       44.44444         254       50.617284         255       45.061728         256       45.679012         258       41.975309         259       41.358025         260       46.913580		59.876543
234       45.679012         235       41.975309         236       49.382716         237       57.407407         238       48.148148         239       59.259259         240       50.000000         241       40.123457         242       42.592593         243       49.382716         244       41.975309         245       56.790123         246       52.469136         247       41.358025         248       45.299145         249       53.472222         250       51.234568         251       51.234568         252       47.530864         253       44.444444         254       50.617284         255       45.061728         256       45.061728         257       45.679012         258       41.975309         259       41.358025         260       46.913580		
236       49.382716         237       57.407407         238       48.148148         239       59.259259         240       50.000000         241       40.123457         242       42.592593         243       49.382716         244       41.975309         245       56.790123         246       52.469136         247       41.358025         248       45.299145         249       53.472222         250       51.234568         251       51.234568         252       47.530864         253       44.444444         254       50.617284         255       45.061728         256       45.079012         258       41.975309         259       41.358025         260       46.913580		
237       57.407407         238       48.148148         239       59.259259         240       50.000000         241       40.123457         242       42.592593         243       49.382716         244       41.975309         245       56.790123         246       52.469136         247       41.358025         248       45.299145         249       53.472222         250       51.234568         251       51.234568         252       47.530864         253       44.44444         254       50.617284         255       45.061728         256       45.679012         258       41.975309         259       41.358025         260       46.913580		
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240       50.000000         241       40.123457         242       42.592593         243       49.382716         244       41.975309         245       56.790123         246       52.469136         247       41.358025         248       45.299145         249       53.472222         250       51.234568         251       51.234568         252       47.530864         253       44.444444         254       50.617284         255       45.061728         256       45.679012         258       41.975309         259       41.358025         260       46.913580		48.148148
24140.12345724242.59259324349.38271624441.97530924556.79012324652.46913624741.35802524845.29914524953.47222225051.23456825151.23456825247.53086425344.44444425450.61728425545.06172825645.06172825745.67901225841.97530925941.35802526046.913580		
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24556.79012324652.46913624741.35802524845.29914524953.47222225051.23456825151.23456825247.53086425344.44444425450.61728425545.06172825645.06172825745.67901225841.97530925941.35802526046.913580		
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315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342	53.703704 49.382716 44.44444 51.234568 59.259259 46.913580 50.617284 53.086420 46.296296 40.123457 50.000000 52.469136 57.391304 52.777778 50.617284 51.851852 62.962963 59.876543 44.44444 57.407407 51.851852 53.703704 56.790123 54.601227 50.617284 45.061728 45.061728 45.061728 45.061728
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442	49.382716
443	45.679012
444	58.641975
445	55.55556
446 447	43.827160 46.902655
447	38.888889
449	48.148148
450	41.975309
451	43.209877
452	39.130435
453	42.592593
454	52.469136
455	58.385093
456 457	55.55556 56.790123
457 458	51.234568
450 459	59.259259
460	48.765432
461	53.987730
462	53.374233
463	58.024691
464	38.888889

465 466 467 468 469 470 471 472 473 474 475 476	40.740741 40.740741 43.209877 44.099379 47.826087 56.172840 53.703704 50.000000 45.679012 51.234568 56.790123 42.592593 46.086957
478	45.138889
479	49.382716
480	48.447205
481	52.173913
482	48.447205
483	56.172840
484	49.693252
485	50.000000
486	52.469136
487	44.099379
488	53.703704
489	57.668712
490	64.912281
491	45.833333
492	54.320988
493	48.148148
494	40.123457
495	41.975309
496	41.358025
497	41.975309
498	51.234568
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500	41.358025
501	60.248447
502	55.55556
503	54.938272
504	52.795031
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506	41.358025
507	43.827160
508	46.913580
509	54.320988
510	61.946903
511	54.482759
512	56.790123
513	59.259259
514	70.370370

515	60.493827
516	54.037267
517	59.006211
518	63.975155
519	61.963190
520	62.345679
521	58.641975
522	59.876543
523	58.024691
524	54.938272
525	63.580247
526	58.641975
527	59.876543
528	58.641975
529	52.469136
530	51.851852
531	60.493827
532	66.666667
533	56.790123
534	62.500000
535	53.703704
536	56.172840
537	47.826087
538	44.44444
539	36.419753
540	48.672566
541	47.916667
542	43.827160
543	54.320988
544	54.320988
545	59.509202
546	58.024691
547	50.617284
548	46.583851
549	40.993789
550	43.827160
551	51.234568
552	59.876543
553	54.320988
554	54.938272
555	43.209877
556	48.765432
557	47.530864
558	45.679012
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561	47.530864
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711	38.271605
712	51.234568
713	55.55556
714	51.234568

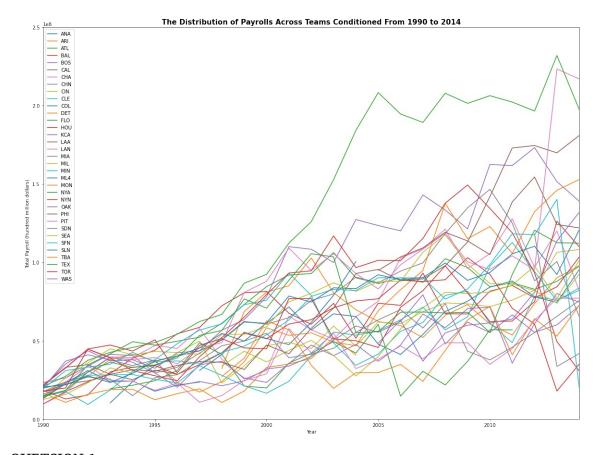
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765	56.172840
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768	54.320988
769	59.876543
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771	38.888889
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773	42.857143
774	38.271605
775	34.161491
776	38.888889
777	43.478261
778	41.358025
779	37.654321
780	40.740741
781	59.876543
782	51.851852
783	59.259259
784	56.172840
785	55.55556
786	56.441718
787	47.530864
788	38.509317
789	53.703704
790	46.296296
791	43.478261
792	51.234568
793	51.234568
794	52.469136
795	47.530864
796	53.086420
797	45.614035
798	51.388889
799	55.214724
800	47.530864
801	54.320988
802	58.641975
803	43.827160
804	45.061728
805	44.44444
806	43.827160
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808	48.765432
809	49.382716
810	46.296296
811	48.765432
812	53.703704
813	55.55556
814	59.259259

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815
           57.407407
816
          55.828221
817
          41.358025
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          61.490683
819
          52.760736
820
           59.259259
821
          53.703704
822
           54.938272
823
          53.086420
824
          56.172840
825
           59.259259
826
           58.641975
827
          47.826087
828
          38.888889
829
           45.679012
830
           46.913580
831
           53.987730
832
           51.851852
833
           51.234568
834
           49.382716
835
           48.148148
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           53.086420
837
          41.614907
838
          49.382716
839
           53.703704
840
           51.234568
841
           53.086420
842
          46.296296
843
           52.469136
           50.000000
844
845
           45.061728
846
          45.679012
847
          51.234568
848
          50.000000
849
           43.827160
850
           45.061728
851
           36.645963
852
          36.419753
853
           42.592593
854
           49.689441
855
          60.493827
856
           53.086420
857
          59.259259
PROBLEM 2
```

```
#get the data from 1990 to 2014
new_data = data[(data['yearID'] >= 1990) & (data['yearID'] <= 2014)]
#x-axis and y-axis
plt.figure(figsize = (20, 15))
plt.xlim((1990, 2014))</pre>
```

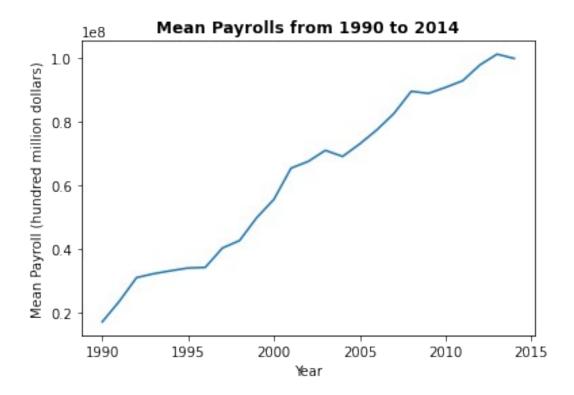
```
plt.vlim((0, 250000000))
plt.title("The Distribution of Payrolls Across Teams Conditioned From
1990 to 2014", size=15, weight = "bold")
plt.xlabel("Year")
plt.ylabel("Total Payroll (hundred million dollars)")
#get the data we want (teamID, yearID and payroll) from the table
teamID list = new data['teamID'].to list()
yearID list = new data['yearID'].to list()
payroll list = new data['total payroll'].to list()
#convert list to dictionary
def Convert(lst):
    res_dct = {i: lst.count(i) for i in set(lst)}
    return res dct
#plot
new teamID list = Convert(teamID list)
sorted teamID list = sorted(new teamID list.keys(), key = lambda x:
x.lower())
for team in sorted_teamID_list:
    index = new teamID list[team]
    pay = payroll_list[0:index]
    year = yearID list[0:index]
    plt.plot(year, pay, label = str(team))
    payroll list = payroll list[index:]
    yearID list = yearID list[index:]
plt.legend()
plt.show()
```



## **QUETSION 1**

The general trend of payroll is increasing from 1990 to 2014 for all teams, and the payroll gap between different teams becomes bigger.

```
#calculate the mean payroll
mean_table = new_data[['yearID','total_payroll']]
mean_payroll = (mean_table.groupby('yearID')).mean()
#plot
plt.title("Mean Payrolls from 1990 to 2014", weight = "bold")
plt.xlabel("Year")
plt.ylabel("Mean Payroll (hundred million dollars)")
plt.plot(mean_payroll)
plt.show()
```



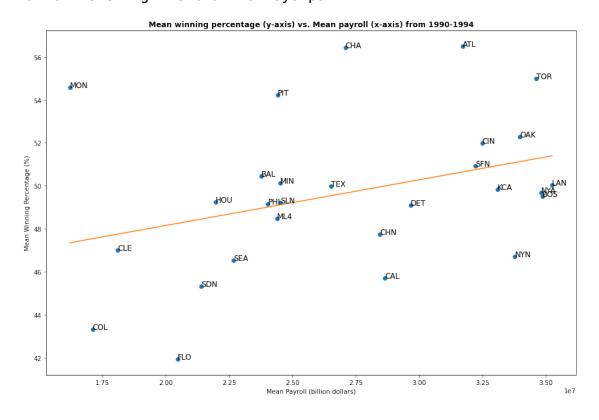
#### **RPOBLEM 4**

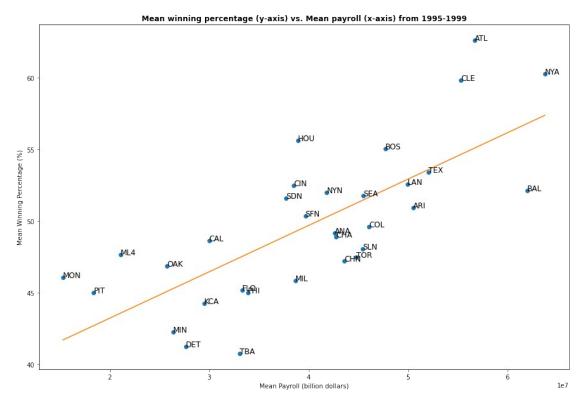
```
#discretize year into five time periods
temp = new_data[['yearID','teamID','total_payroll','win_percentage']]
periods = ["1990-1994", "1995-1999", "2000-2004", "2005-2009", "2010-
2014"1
temp['time period'] = pd.cut(temp['yearID'], right = False, bins = 5,
labels = periods)
#find mean payroll and mean win percentage
for p in periods:
    table = temp.drop(temp[p != temp['time period']].index)
    mean payroll = (table.groupby(['teamID']))['total payroll'].mean()
    mean win = (table.groupby(['teamID']))['win percentage'].mean()
#plot
    z = np.polyfit(x = mean payroll, y = mean win, deg = 1)
    f = np.polyld(z)
    x new = np.linspace(mean payroll.min(), mean payroll.max(), 100)
    y \text{ new} = f(x \text{ new})
    plt.figure(figsize=(15,10))
    plt.plot(mean_payroll, mean_win, 'o', x_new, y_new)
    for i, txt in enumerate(mean payroll.index):
        plt.annotate(txt, (mean payroll[i], mean win[i]), size = 12)
    plt.title("Mean winning percentage (y-axis) vs. Mean payroll (x-
axis) from " + p, weight = "bold")
    plt.xlabel("Mean Payroll (billion dollars)")
    plt.ylabel("Mean Winning Percentage (%)")
    plt.show()
```

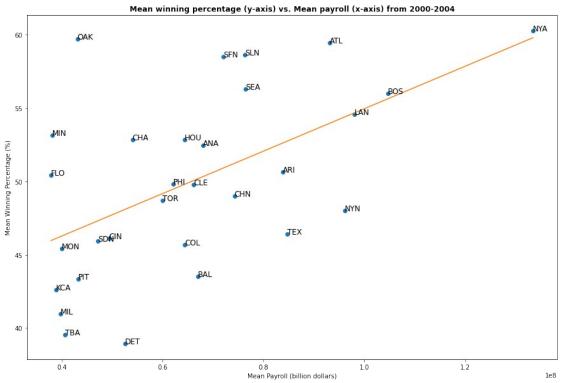
/usr/local/lib/python3.7/dist-packages/ipykernel\_launcher.py:4:
SettingWithCopyWarning:

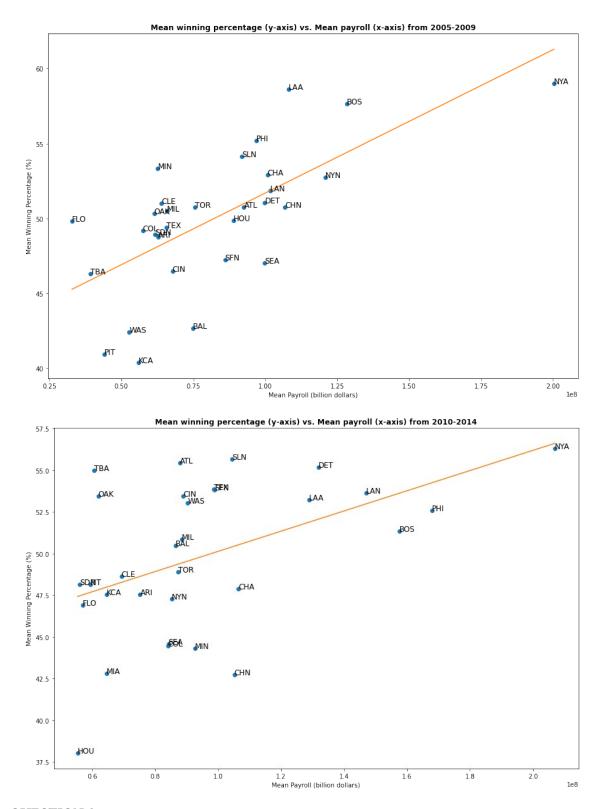
A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html# returning-a-view-versus-a-copy after removing the cwd from sys.path.









# **QUESTION 2**

In general, the more payroll is, the more winning percentage is. The team NYA and BOS are being particularly good at paying for wins across these time periods. For the team OAK, the

team's winning percentage is above the average level while the payroll is not that high, which means the spending efficiency is high.

```
standardTable = new data
for year, year df in standardTable.groupby('yearID'):
    #the standard deviation
    sd = year df['total payroll'].std()
    #the average
    avg = year df['total payroll'].mean()
    for team, team df in year df.groupby('teamID'):
        #the standard payroll
        standardTable.loc[(standardTable['yearID'] == year) &
(standardTable['teamID'] == team), 'standard payroll'] =
(team df['total payroll'] - avg) / sd
standardTable = standardTable[['yearID', 'teamID', 'total_payroll',
'standard payroll']]
standardTable
/usr/local/lib/python3.7/dist-packages/pandas/core/indexing.py:1681:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row indexer,col indexer] = value instead
See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user guide/indexing.html#
returning-a-view-versus-a-copy
  self.obi[key] = empty value
/usr/local/lib/python3.7/dist-packages/pandas/core/indexing.py:1773:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row indexer,col indexer] = value instead
See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#
returning-a-view-versus-a-copy
  self. setitem single column(ilocs[0], value, pi)
     yearID teamID
                   total payroll
                                   standard payroll
0
       1997
               ANA
                       31135472.0
                                           -0.698639
1
       1998
               ANA
                       41281000.0
                                           -0.086369
2
       1999
               ANA
                       55388166.0
                                           0.271410
3
       2000
               ANA
                       51464167.0
                                           -0.190214
4
       2001
               ANA
                       47535167.0
                                           -0.721244
5
       2002
               ANA
                       61721667.0
                                           -0.232769
6
       2003
               ANA
                       79031667.0
                                           0.288791
7
       2004
               ANA
                      100534667.0
                                           0.960040
8
       1998
               ARI
                       32347000.0
                                          -0.667223
9
       1999
               ARI
                       68703999.0
                                           0.919025
10
               ARI
                       81027833.0
       2000
                                           1.190219
```

11	2001	ARI	85082999.0	0.798437
12	2002	ARI	102819999.0	1.431657
13	2003	ARI	80657000.0	0.346814
14	2004	ARI	69780750.0	0.023110
15	2005	ARI	62329166.0	-0.310988
16	2006	ARI	59684226.0	-0.548527
17	2007	ARI	52067546.0	-0.899186
18	2008	ARI	66202712.0	-0.616173
19	2009	ARI	73115666.0	-0.463967
20	2010	ARI	60718166.0	-0.786929
21	2011	ARI	53639833.0	-0.959939
22	2012	ARI	73804833.0	-0.650592
23	2013	ARI	90132000.0	-0.225656
24	2014	ARI	97861500.0	-0.042414
30	1990	ATL	14555501.0	-0.667275
31	1991	ATL	18403500.0	-0.750621
32	1992	ATL	34625333.0	0.398104
33	1993	ATL	41641417.0	1.022088
34	1994	ATL	49383513.0	1.904910
35	1995	ATL	47235445.0	1.402879
36	1996	ATL	49698500.0	1.452071
37	1997	ATL	52278500.0	0.920185
38	1998	ATL	61186000.0	1.207776
39	1999	ATL	73140000.0	1.134770
40	2000	ATL	84537836.0	1.354114
41	2001	ATL	91936166.0	1.075807
42	2002	ATL	92870367.0	1.028710
43	2003	ATL	106243667.0	1.260233
44	2004	ATL	90182500.0	0.644657
45	2005	ATL	86457302.0	0.395034
46	2006	ATL	90156876.0	0.395924
47	2007	ATL	87290833.0	0.139633
48	2008	ATL	102365683.0	0.340469
49	2009	ATL	96726166.0	0.233391
50	2010	ATL	84423666.0	-0.164983
51	2011	ATL	87002692.0	-0.142462
52	2012	ATL	82829942.0	-0.405462
53	2013	ATL	87871525.0	-0.271949
54	2014	ATL	97609000.0	-0.047938
60	1990	BAL	9680084.0	-1.959861
61	1991	BAL	17519000.0	-0.878909
62	1992	BAL	23780667.0	-0.787026
63	1993	BAL	29096500.0	-0.336692
64	1994	BAL	38849769.0	0.669824
65	1995	BAL	43942521.0	1.054347
66	1996	BAL	54490315.0	1.900385
67	1997	BAL	58516400.0	1.397793
68	1998	BAL	72355634.0	1.933982
69	1999	BAL	80605863.0	1.497872
70	2000	BAL	81447435.0	1.209812

72 2002 BAL 60493487.0 -0.282509 73 2003 BAL 73877500.0 0.104792 74 2004 BAL 51623333.0 -0.530064 75 2005 BAL 73914333.0 0.028010 76 2006 BAL 72585582.0 -0.148670 77 2007 BAL 93174808.0 0.313165 78 2008 BAL 67196246.0 -0.589891 79 2009 BAL 81612500.0 -0.641596 80 2010 BAL 81612500.0 -0.238738 81 2011 BAL 85304038.0 -0.184083 82 2012 BAL 77353999.0 -0.554194 83 2013 BAL 84393333.0 -0.343179 84 2014 BAL 103416000.0 0.079116 90 1990 BOS 20558333.0 0.924213 91 1991 BOS 35167500.0 1.680823 92 1992 BOS 43610584.0 1.380034 93 1993 BOS 37120583.0 0.532422 94 1994 BOS 37859084.0 0.553665 95 1995 BOS 32455518.0 -0.161466 96 1996 BOS 42393500.0 0.768629 97 1997 BOS 43558750.0 0.768629 97 1997 BOS 63497500.0 0.665807 100 2000 BOS 77940333.0 1.046053 101 2001 BOS 110035833.0 1.046053 104 2004 BOS 127298500.0 1.65265 103 2003 BOS 99946500.0 1.635430 104 2004 BOS 127298500.0 1.775411 105 2005 BOS 123565125.0 1.479103 106 2006 BOS 123565125.0 1.479103 107 2007 BOS 14396214.0 1.783402 110 2010 BOS 161762475.0 1.689348 111 2011 BOS 161762475.0 1.689348 112 2012 BOS 173186617.0 2.048713 113 2013 BOS 151530000.0 1.635430 114 2014 BOS 13390935.0 1.161175 109 2009 BOS 121345999.0 0.9605665 110 2010 BOS 162447333.0 1.882075 111 2011 BOS 161762475.0 1.689348 112 2012 BOS 173186617.0 2.048713 113 2013 BOS 151530000.0 1.035719 114 2014 BOS 133000992.0 0.858109 120 1999 CAL 21720000.0 1.332198 121 1991 CAL 33060001.0 1.375152 122 1992 CAL 34749334.0 0.411656 123 1993 CAL 28588334.0 -0.391733 124 1994 CAL 25156218.0 -0.959755 135 1995 CAL 31223171.0 -0.991901 126 1996 CAL 28738000.0 -0.5089787 135 1993 CHA 390696166.0 0.881339	71	2001	BAL	67599540.0	0.090826
74		2002			
75					
76         2006         BAL         72585582.0         -0.148670           77         2007         BAL         93174808.0         0.313165           78         2008         BAL         67196246.0         -0.589891           79         2009         BAL         67101666.0         -0.641596           80         2010         BAL         81612500.0         -0.238738           81         2011         BAL         85304038.0         -0.184083           82         2012         BAL         77353999.0         -0.554194           83         2013         BAL         84393333.0         -0.343179           84         2014         BAL         103416000.0         0.079116           90         1990         BOS         20558333.0         0.924213           91         1991         BOS         35167500.0         1.680823           92         1992         BOS         37859084.0         0.553665           95         1995         BOS         37859084.0         0.553665           95         1995         BOS         32455518.0         0.161466           96         1996         BOS         42393500.0         0.768629 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
77					
78         2008         BAL         67196246.0         -0.589891           79         2009         BAL         67101666.0         -0.641596           80         2010         BAL         81612500.0         -0.238738           81         2011         BAL         85304038.0         -0.184083           82         2012         BAL         77353999.0         -0.554194           83         2013         BAL         84393333.0         -0.343179           84         2014         BAL         103416000.0         0.079116           90         1990         BOS         20558333.0         0.924213           91         1991         BOS         35167500.0         1.680823           92         1992         BOS         43610584.0         1.380034           93         1993         BOS         37120583.0         0.532422           94         1994         BOS         37859084.0         0.553665           95         1995         BOS         32455518.0         0.532422           97         1997         BOS         4358750.0         0.252554           98         1998         BOS         5675000.0         0.768629					
79         2009         BAL         67101666.0         -0.641596           80         2010         BAL         81612500.0         -0.238738           81         2011         BAL         85304038.0         -0.184083           82         2012         BAL         77353999.0         -0.554194           83         2013         BAL         84393333.0         -0.343179           84         2014         BAL         103416000.0         0.079116           90         1990         BOS         20558333.0         0.924213           91         1991         BOS         35167500.0         1.680823           92         1992         BOS         43610584.0         1.380034           93         1993         BOS         37859084.0         0.553665           95         1995         BOS         32455518.0         -0.161466           95         1995         BOS         32455818.0         -0.53665           97         1997         BOS         43558750.0         0.252554           98         1998         BOS         56757000.0         0.919820           99         1999         BOS         63497500.0         0.665807 <td></td> <td></td> <td></td> <td></td> <td></td>					
80         2010         BAL         81612500.0         -0.238738           81         2011         BAL         85304038.0         -0.184083           82         2012         BAL         77353990.0         -0.554194           83         2013         BAL         84393333.0         -0.343179           84         2014         BAL         103416000.0         0.079116           90         1990         BOS         20558333.0         0.924213           91         1991         BOS         35167500.0         1.680823           92         1992         BOS         43610584.0         1.380034           93         1993         BOS         37120583.0         0.532422           94         1994         BOS         37859084.0         0.553262           94         1994         BOS         37859084.0         0.553265           95         1995         BOS         32455518.0         -0.161466           96         1996         BOS         42393500.0         0.768629           97         1997         BOS         43558750.0         0.252554           98         1998         BOS         56757000.0         0.665807 <td></td> <td></td> <td></td> <td></td> <td></td>					
81       2011       BAL       85304038.0       -0.184083         82       2012       BAL       77353999.0       -0.554194         83       2013       BAL       84393333.0       -0.343179         84       2014       BAL       103416000.0       0.079116         90       1990       BOS       20558333.0       0.924213         91       1991       BOS       35167500.0       1.680823         92       1992       BOS       43610584.0       1.380034         93       1993       BOS       37120583.0       0.532422         94       1994       BOS       37859084.0       0.553665         95       1995       BOS       32455518.0       0.532422         94       1994       BOS       37859084.0       0.553665         95       1995       BOS       32455518.0       0.161466         96       1996       BOS       43558750.0       0.768629         97       1997       BOS       43558750.0       0.252554         98       1998       BOS       56757000.0       0.969580         100       2000       BOS       77940333.0       1.046053					
82       2012       BAL       77353999.0       -0.554194         83       2013       BAL       84393333.0       -0.343179         84       2014       BAL       103416000.0       0.079116         90       1990       BOS       20558333.0       0.924213         91       1991       BOS       35167500.0       1.680823         92       1992       BOS       43610584.0       1.380034         93       1993       BOS       37120583.0       0.532422         94       1994       BOS       37859084.0       0.553665         95       1995       BOS       32455518.0       -0.161466         96       1996       BOS       43558750.0       0.768629         97       1997       BOS       43558750.0       0.252554         98       1998       BOS       56757000.0       0.919820         99       1999       BOS       63497500.0       0.665807         100       2000       BOS       77940333.0       1.046053         101       2001       BOS       10035833.0       1.808358         102       2002       BOS       103566060.0       1.656265					
83       2013       BAL       84393333.0       -0.343179         84       2014       BAL       103416000.0       0.079116         90       1990       BOS       20558333.0       0.924213         91       1991       BOS       35167500.0       1.680823         92       1992       BOS       43610584.0       1.380034         93       1993       BOS       37120583.0       0.532422         94       1994       BOS       37859084.0       0.553665         95       1995       BOS       32455518.0       -0.161466         96       1996       BOS       42393500.0       0.768629         97       1997       BOS       43558750.0       0.252554         98       1998       BOS       63497500.0       0.665807         100       2000       BOS       77940333.0       1.046053         101       2001       BOS       110035833.0       1.808358         102       2002       BOS       108366060.0       1.656265         103       2003       BOS       19946500.0       1.035430         104       2004       BOS       127298500.0       1.775411 <tr< td=""><td></td><td></td><td></td><td></td><td></td></tr<>					
84       2014       BAL       103416000.0       0.079116         90       1990       BOS       20558333.0       0.924213         91       1991       BOS       35167500.0       1.680823         92       1992       BOS       43610584.0       1.380034         93       1993       BOS       37859084.0       0.5532422         94       1994       BOS       37859084.0       0.553665         95       1995       BOS       32455518.0       -0.161466         96       1996       BOS       42393500.0       0.768629         97       1997       BOS       43558750.0       0.252554         98       1998       BOS       56757000.0       0.919820         99       1999       BOS       63497500.0       0.665807         100       2000       BOS       77940333.0       1.046053         101       2001       BOS       110035833.0       1.808358         102       2002       BOS       108366060.0       1.656265         103       2003       BOS       19946500.0       1.775411         105       2005       BOS       12239650.0       1.775411					
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92       1992       BOS       43610584.0       1.380034         93       1993       BOS       37120583.0       0.532422         94       1994       BOS       37859084.0       0.553665         95       1995       BOS       32455518.0       -0.161466         96       1996       BOS       42393500.0       0.768629         97       1997       BOS       43558750.0       0.252554         98       1998       BOS       56757000.0       0.919820         99       1999       BOS       63497500.0       0.665807         100       2000       BOS       77940333.0       1.046053         101       2001       BOS       110035833.0       1.808358         102       2002       BOS       108366060.0       1.656265         103       2003       BOS       99946500.0       1.035430         104       2004       BOS       127298500.0       1.775411         105       2005       BOS       123505125.0       1.479103         106       2006       BOS       12099824.0       1.323957         107       2007       BOS       143026214.0       1.783402					
93       1993       BOS       37120583.0       0.532422         94       1994       BOS       37859084.0       0.553665         95       1995       BOS       32455518.0       -0.161466         96       1996       BOS       42393500.0       0.768629         97       1997       BOS       43558750.0       0.252554         98       1998       BOS       56757000.0       0.665807         100       2000       BOS       77940333.0       1.046053         101       2001       BOS       110035833.0       1.808358         102       2002       BOS       108366060.0       1.656265         103       2003       BOS       127298500.0       1.775411         105       2005       BOS       123505125.0       1.479103         106       2006       BOS       120099824.0       1.323957         107       2007       BOS       143026214.0       1.783402         108       2008       BOS       12339999.0       0.960560         110       2010       BOS       162447333.0       1.161175         109       2009       BOS       121345999.0       0.960560					
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97       1997       BOS       43558750.0       0.252554         98       1998       BOS       56757000.0       0.919820         99       1999       BOS       63497500.0       0.665807         100       2000       BOS       77940333.0       1.046053         101       2001       BOS       110035833.0       1.808358         102       2002       BOS       108366060.0       1.656265         103       2003       BOS       99946500.0       1.035430         104       2004       BOS       127298500.0       1.775411         105       2005       BOS       123505125.0       1.479103         106       2006       BOS       120099824.0       1.323957         107       2007       BOS       143026214.0       1.783402         108       2008       BOS       133390035.0       1.161175         109       2009       BOS       121345999.0       0.960560         110       2010       BOS       162447333.0       1.882075         111       2011       BOS       161762475.0       1.689348         112       2012       BOS       173186617.0       2.048713					
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103       2003       BOS       99946500.0       1.035430         104       2004       BOS       127298500.0       1.775411         105       2005       BOS       123505125.0       1.479103         106       2006       BOS       120099824.0       1.323957         107       2007       BOS       143026214.0       1.783402         108       2008       BOS       133390035.0       1.161175         109       2009       BOS       121345999.0       0.960560         110       2010       BOS       162447333.0       1.882075         111       2011       BOS       161762475.0       1.689348         112       2012       BOS       173186617.0       2.048713         113       2013       BOS       151530000.0       1.031719         114       2014       BOS       139019929.0       0.858109         120       1990       CAL       21720000.0       1.232198         121       1991       CAL       33060001.0       1.375152         122       1992       CAL       34749334.0       0.411656         123       1993       CAL       28588334.0       -0.391733		2001		110035833.0	1.808358
104       2004       BOS       127298500.0       1.775411         105       2005       BOS       123505125.0       1.479103         106       2006       BOS       120099824.0       1.323957         107       2007       BOS       143026214.0       1.783402         108       2008       BOS       133390035.0       1.161175         109       2009       BOS       121345999.0       0.960560         110       2010       BOS       162447333.0       1.882075         111       2011       BOS       161762475.0       1.689348         112       2012       BOS       173186617.0       2.048713         113       2013       BOS       151530000.0       1.031719         114       2014       BOS       139019929.0       0.858109         120       1990       CAL       21720000.0       1.232198         121       1991       CAL       33060001.0       1.375152         122       1992       CAL       34749334.0       0.411656         123       1993       CAL       28588334.0       -0.391733         124       1994       CAL       25156218.0       -0.935752					
105       2005       BOS       123505125.0       1.479103         106       2006       BOS       120099824.0       1.323957         107       2007       BOS       143026214.0       1.783402         108       2008       BOS       133390035.0       1.161175         109       2009       BOS       121345999.0       0.960560         110       2010       BOS       162447333.0       1.882075         111       2011       BOS       161762475.0       1.689348         112       2012       BOS       173186617.0       2.048713         113       2013       BOS       151530000.0       1.031719         114       2014       BOS       139019929.0       0.858109         120       1990       CAL       21720000.0       1.232198         121       1991       CAL       33060001.0       1.375152         122       1992       CAL       34749334.0       0.411656         123       1993       CAL       28588334.0       -0.391733         124       1994       CAL       25156218.0       -0.935752         125       1995       CAL       31223171.0       -0.291901					
106       2006       BOS       120099824.0       1.323957         107       2007       BOS       143026214.0       1.783402         108       2008       BOS       133390035.0       1.161175         109       2009       BOS       121345999.0       0.960560         110       2010       BOS       162447333.0       1.882075         111       2011       BOS       161762475.0       1.689348         112       2012       BOS       173186617.0       2.048713         113       2013       BOS       151530000.0       1.031719         114       2014       BOS       139019929.0       0.858109         120       1990       CAL       21720000.0       1.232198         121       1991       CAL       33060001.0       1.375152         122       1992       CAL       34749334.0       0.411656         123       1993       CAL       28588334.0       -0.391733         124       1994       CAL       25156218.0       -0.935752         125       1995       CAL       31223171.0       -0.291901         126       1996       CAL       28738000.0       -0.508955					
107       2007       BOS       143026214.0       1.783402         108       2008       BOS       133390035.0       1.161175         109       2009       BOS       121345999.0       0.960560         110       2010       BOS       162447333.0       1.882075         111       2011       BOS       161762475.0       1.689348         112       2012       BOS       173186617.0       2.048713         113       2013       BOS       151530000.0       1.031719         114       2014       BOS       139019929.0       0.858109         120       1990       CAL       21720000.0       1.232198         121       1991       CAL       33060001.0       1.375152         122       1992       CAL       34749334.0       0.411656         123       1993       CAL       28588334.0       -0.391733         124       1994       CAL       25156218.0       -0.935752         125       1995       CAL       31223171.0       -0.291901         126       1996       CAL       28738000.0       -0.508955         132       1990       CHA       9491500.0       -2.009859					
108       2008       BOS       133390035.0       1.161175         109       2009       BOS       121345999.0       0.960560         110       2010       BOS       162447333.0       1.882075         111       2011       BOS       161762475.0       1.689348         112       2012       BOS       173186617.0       2.048713         113       2013       BOS       151530000.0       1.031719         114       2014       BOS       139019929.0       0.858109         120       1990       CAL       21720000.0       1.232198         121       1991       CAL       33060001.0       1.375152         122       1992       CAL       34749334.0       0.411656         123       1993       CAL       28588334.0       -0.391733         124       1994       CAL       25156218.0       -0.935752         125       1995       CAL       31223171.0       -0.291901         126       1996       CAL       28738000.0       -0.508955         132       1990       CHA       9491500.0       -2.009859         133       1991       CHA       16919667.0       -0.965836					
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134 1992 CHA 30160833.0 -0.089787					
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	135	1993	CHA	39696166.0	0.811392

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194	1992	CIN	44879666.0	1.372833
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196	1994	CIN	40961833.0	0.917464
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205	2003	CIN	59355667.0	-0.413623
206	2004	CIN	46615250.0	-0.682637
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210	2008	CIN	74117695.0	-0.406793
211	2009	CIN	73558500.0	-0.450887
212	2010	CIN	71761542.0	-0.497191
213	2011	CIN	75947134.0	-0.413352
214	2012	CIN	82203616.0	-0.422473
215	2013	CIN	106404462.0	0.107589
216	2014	CIN	108217500.0	0.184170
222	1990	CLE	14487000.0	-0.685437
223	1991	CLE	17635000.0	-0.862084
224	1992	CLE	9373044.0	-2.361525
225	1993	CLE	18561000.0	-1.477826
226	1994	CLE	30490500.0	-0.310305
227	1995	CLE	37937835.0	0.418796
228	1996	CLE	48107360.0	1.303207
229	1997	CLE	56802460.0	1.266564
230	1998	CLE	60800166.0	1.182690
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235	2003	CLE	48584834.0	-0.798132
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238	2006	CLE	56031500.0	-0.661737
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253	1999	COL	61935837.0	0.589855
254	2000	COL	61111190.0	0.260240
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274	1990	DET	17593238.0	0.138098
275	1991	DET	23838333.0	0.037645
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277	1993	DET	38150165.0	0.643939
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355	1991	KCA	33893834.0	0.318165
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364	2001	KCA	35422500.0	-1.211482
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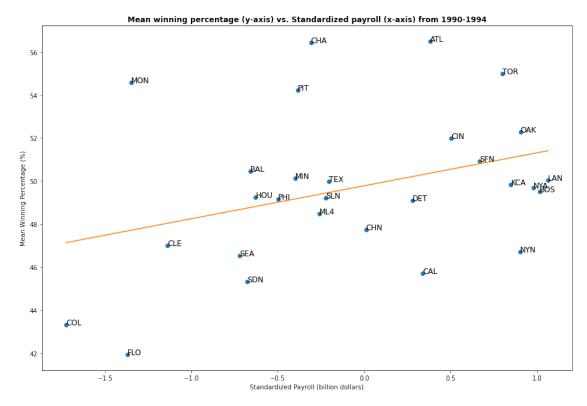
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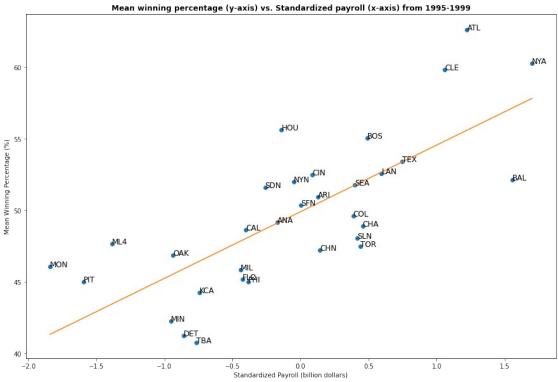
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677	2011	SDN	45869140.0	-1.150341
678	2012	SDN	55244700.0	-1.154703
679	2013	SDN	65585500.0	-0.728346
680 686	2014 1990	SDN SEA	75685700.0 12553667.0	-0.527607 -1.198008
687	1990	SEA	15691833.0	-1.143920
688	1992	SEA	23179833.0	-0.852687
689	1993	SEA	32696333.0	0.053217
690	1994	SEA	29228500.0	-0.458275
691	1995	SEA	36481311.0	0.264634
692	1996	SEA	41328501.0	0.668989 0.098038
693 694	1997 1998	SEA SEA	41540661.0 54087036.0	0.746229
695	1999	SEA	54125003.0	0.209976
696	2000	SEA	58915000.0	0.157692
697	2001	SEA	74720834.0	0.379047
698	2002	SEA	80282668.0	0.518926
699	2003	SEA	86959167.0	0.571795
700 701	2004 2005	SEA SEA	81515834.0 87754334.0	0.380624 0.432987
701	2005	SEA	87959833.0	0.327830
703	2007	SEA	106460833.0	0.705002
704	2008	SEA	117666482.0	0.745230
705	2009	SEA	98904166.0	0.297720
706	2010	SEA	86510000.0	-0.110245
707	2011	SEA	86110600.0	-0.164320
708 709	2012 2013	SEA SEA	81978100.0 74005043.0	-0.428598 -0.555922
710	2013	SEA	92531100.0	-0.159040
716	1990	SFN	19335333.0	0.599968
717	1991	SFN	30967666.0	1.071680
718	1992	SFN	33163168.0	0.238316
719	1993	SFN	35050000.0	0.308151
720 721	1994 1995	SFN SFN	42638666.0 36462777.0	1.114074 0.262672
721	1995	SFN	37144725.0	0.277563
723	1997	SFN	35592378.0	-0.357394
724	1998	SFN	42565834.0	-0.002834
725	1999	SFN	46595057.0	-0.156243

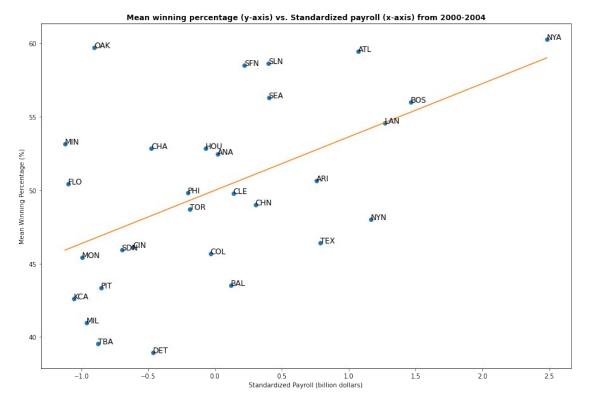
726	2000	CEN	F2727026 0	0 004040
726	2000	SFN	53737826.0	-0.084049
727	2001	SFN	63280167.0	-0.083993
728	2002	SFN	78299835.0	0.438624
729	2003	SFN	82852167.0	0.425179
730	2004	SFN	82019166.0	0.395958
731	2005	SFN	90199500.0	0.504535
732	2006	SFN	90056419.0	0.392810
733	2007	SFN	90219056.0	0.225993
734	2008	SFN	76594500.0	-0.341273
735	2009	SFN	83026450.0	-0.171243
736	2010	SFN	98641333.0	0.208037
737	2011	SFN	118198333.0	0.621913
738	2012	SFN	117620683.0	0.539489
739	2013	SFN	140180334.0	0.799288
740	2014	SFN	20000000.0	-1.745978
746	1990	SLN	20523334.0	0.914934
747	1991	SLN	21860001.0	-0.249292
748	1992	SLN	27583836.0	-0.371407
749	1993	SLN	23367334.0	-0.957236
750	1994	SLN	29275601.0	-0.452752
751	1995	SLN	37101000.0	0.330224
752	1996	SLN	40269667.0	0.569927
753 754	1997	SLN	45456667.0	0.397869
754	1998	SLN	54672521.0	0.784295
755 756	1999	SLN	49778195.0	-0.001431
756	2000	SLN	61453863.0	0.276240
757	2001	SLN	78538333.0	0.533554
758 750	2002	SLN	74660875.0	0.291251
759 760	2003	SLN	83786666.0	0.458540
760 761	2004	SLN	83228333.0	0.432796
761 762	2005	SLN	92106833.0	0.560347
762 762	2006	SLN	88891371.0	0.356701
763	2007	SLN	90286823.0 99624449.0	0.227992
764 765	2008	SLN		0.267953
765 766	2009	SLN	88528409.0	-0.008737
766 767	2010	SLN	93540751.0 105433572.0	0.074216 0.309143
767 768	2011	SLN SLN	110300862.0	
769	2012			0.340675 -0.182074
709 770	2013	SLN	92260110.0	
771	2014 1998	SLN TBA	120693000.0	0.457126 -0.996659
772	1996	TBA	27280000.0 38870000.0	-0.531951
773	2000	TBA	62765129.0	0.337468
774	2001	TBA	56980000.0	-0.338981
77 <del>4</del> 775	2001	TBA	34380000.0	-1.340069
775 776	2002	TBA	19630000.0	-1.831791
770 777	2003	TBA	29556667.0	-1.202333
777 778	2004	TBA	29679067.0	-1.266374
778 779	2005	TBA	34917967.0	-1.316117
779 780	2007	TBA	24123500.0	-1.723323
, 00	2007	IDA	Z41Z3300.0	- T' 1 57757

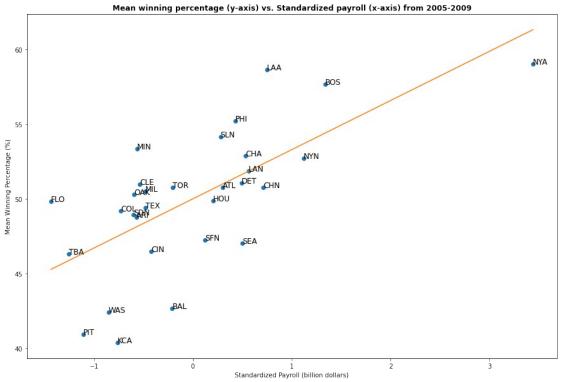
781 782 783 784 785 786 787 793 794	2008 2009 2010 2011 2012 2013 2014 1990 1991 1992	TBA TBA TBA TBA TBA TBA TBA TEX TEX TEX	43820597.0 63313034.0 71923471.0 41053571.0 64173500.0 52955272.0 72689100.0 14874372.0 18224500.0 30128167.0	-1.208261 -0.753496 -0.492943 -1.268335 -0.912189 -0.987002 -0.593171 -0.582735 -0.776583 -0.093356
796	1993	TEX	36376959.0	0.451878
797	1994	TEX	32973597.0	-0.019160
798	1995	TEX	34581451.0	0.063548
799	1996	TEX	39041528.0	0.455024
800	1997	TEX	53448838.0	1.009793
801	1998	TEX	56572095.0	0.907798
802	1999	TEX	76709931.0	1.308393
803	2000	TEX	70795921.0	0.712455
804	2001	TEX	88633500.0	0.942137
805	2002	TEX	105526122.0	1.541251
806	2003	TEX	103491667.0	1.161989
807	2004	TEX	55050417.0	-0.425656
808	2005	TEX	55849000.0	-0.500606
809	2006	TEX	68228662.0	-0.283706
810	2007	TEX	68318675.0	-0.419902
811	2008	TEX	67712326.0	-0.576238
812	2009	TEX	68178798.0	-0.609782
813	2010	TEX	55250544.0	-0.930380
814	2011	TEX	92299264.0	-0.012682
815	2012	TEX	120510974.0	0.617992
816	2013	TEX	112522600.0	0.232883
817	2014	TEX	112255059.0	0.272509
823	1990	TOR	17756834.0	0.181472
824	1991	TOR	19902417.0	-0.533219
825	1992	TOR	44788666.0	1.508778
826	1993	TOR	47279166.0	1.632731
827	1994	TOR	43433668.0	1.207288
828	1995	TOR	50590000.0	1.757933
829	1996	TOR	29555083.0	-0.432510
830	1997	TOR	47079833.0	0.522147
831	1998	TOR	51376000.0	0.569968
832	1999	TOR	45444333.0	-0.212209
833	2000	TOR	44838332.0	-0.499598
834	2001	TOR	76895999.0	0.467083
835 836 837 838 839 840	2001 2002 2003 2004 2005 2006 2007	TOR TOR TOR TOR TOR TOR TOR TOR	76864333.0 51269000.0 50017000.0 45719500.0 71365000.0 81942800.0	0.380488 -0.702310 -0.579001 -0.797009 -0.186500 -0.018094

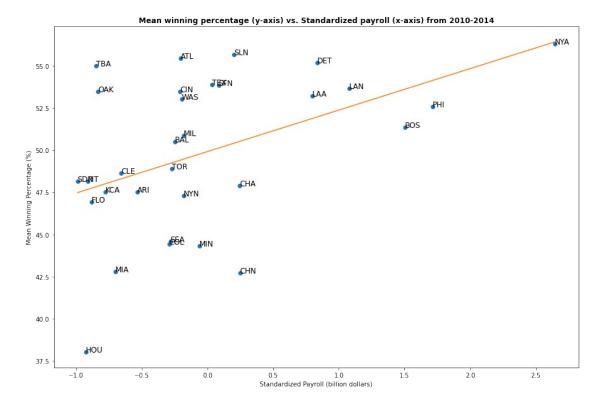
```
841
       2008
               T0R
                       97793900.0
                                            0.219528
       2009
842
               T0R
                       80538300.0
                                           -0.244733
843
       2010
               T0R
                       62234000.0
                                           -0.747159
844
       2011
               T0R
                       62567800.0
                                           -0.741181
       2012
845
               T0R
                       75009200.0
                                           -0.617881
846
       2013
               T0R
                      126288100.0
                                            0.514788
       2014
847
               T0R
                                            0.221422
                      109920100.0
               WAS
848
       2005
                       48581500.0
                                           -0.713263
849
       2006
               WAS
                       63143000.0
                                           -0.441328
850
       2007
               WAS
                       36947500.0
                                           -1.345112
851
       2008
               WAS
                       54961000.0
                                           -0.913557
852
       2009
               WAS
                       59928000.0
                                           -0.853477
853
       2010
               WAS
                                           -0.769040
                       61400000.0
               WAS
854
       2011
                       63856928.0
                                           -0.709594
855
       2012
               WAS
                       80855143.0
                                           -0.459099
                      113703270.0
856
       2013
               WAS
                                            0.257062
857
       2014
               WAS
                      131983680.0
                                            0.704160
PROBLEM 6
temp['standard payroll'] = standardTable['standard payroll'].values
#find mean payroll and mean win percentage
for p in periods:
    table = temp.drop(temp[p != temp['time period']].index)
    mean std = (table.groupby(['teamID']))['standard payroll'].mean()
    mean win = (table.groupby(['teamID']))['win percentage'].mean()
#plot
    z = np.polyfit(x = mean std, y = mean win, deg = 1)
    f = np.poly1d(z)
    x new = np.linspace(mean std.min(), mean std.max(), 100)
    y new = f(x new)
    plt.figure(figsize=(15,10))
    plt.plot(mean std, mean win, 'o', x new, y new)
    for i, txt in enumerate(mean std.index):
        plt.annotate(txt, (mean std[i], mean win[i]), size = 12)
    plt.title("Mean winning percentage (y-axis) vs. Standardized
payroll (x-axis) from " + p, weight = "bold")
    plt.xlabel("Standardized Payroll (billion dollars)")
    plt.ylabel("Mean Winning Percentage (%)")
    plt.show()
/usr/local/lib/python3.7/dist-packages/ipykernel launcher.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col indexer] = value instead
See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user guide/indexing.html#
returning-a-view-versus-a-copy
  """Entry point for launching an IPython kernel.
```











### **QUESTION 3**

The main trend is the same for the problem 4 and problem 6, and the scatter of the data are similar. The advantage of the problem 4 is we can know the relationship between the mean, and the advantage of the problem 6 is we can know the relationship between the standard deviation.

```
relation =
new data[['yearID','teamID','total payroll','win percentage']]
relation['standard payroll'] = standardTable['standard payroll']
#plot
x data = relation['standard payroll'].values
y data = relation['win percentage'].values
z = np.polyfit(x = x_data, y = y_data, deg = 1)
f = np.poly1d(z)
x \text{ new} = \text{np.linspace}(x \text{ data.min}(), x \text{ data.max}(), 100)
y \text{ new} = f(x \text{ new})
plt.figure(figsize=(15,10))
plt.plot(x data, y data, 'o', x new, y new)
plt.title("winning percentage (y-axis) vs. standardized payroll (x-
axis) from 1990 to 2014", weight='bold')
plt.xlabel("Year")
plt.ylabel("Efficiency")
plt.show()
#the the expected win percentage with given formula
```

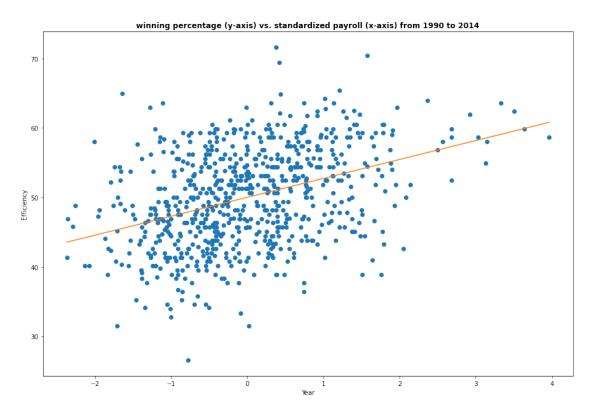
```
relation['expected_win_percentage'] = relation['standard_payroll'] *
2.5 + 50
```

/usr/local/lib/python3.7/dist-packages/ipykernel\_launcher.py:2:
SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation:

https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#
returning-a-view-versus-a-copy



/usr/local/lib/python3.7/dist-packages/ipykernel\_launcher.py:17:
SettingWithCopyWarning:

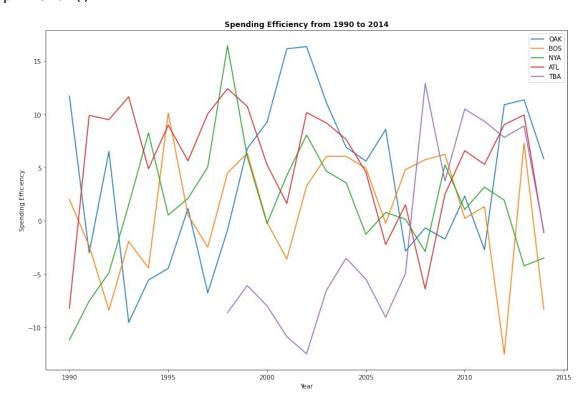
A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation:

https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#
returning-a-view-versus-a-copy

```
relation['spending_efficiency'] = relation['win_percentage'] -
relation['expected_win_percentage']
efficiency_pivot = relation.pivot(index = 'yearID', columns =
'teamID', values = 'spending efficiency')
```

```
teams = ['OAK', 'BOS', 'NYA', 'ATL', 'TBA']
plt.figure(figsize=(15,10))
plt.title("Spending Efficiency from 1990 to 2014", weight='bold')
plt.xlabel("Year")
plt.ylabel("Spending Efficiency")
for team in teams:
    plt.plot(efficiency_pivot[team], label = str(team))
plt.legend()
plt.show()
```



## **OUESTION 4**

From this graph, we can know the relationship between the speeding efficiency from 1990 to 2014. We can conclude the speeding efficiency for each team is not stable, and they varies from year to year. However, the payroll still plays an important role to develop a team. Oakland A's spending efficiency peaked around the Moneyball period (2002).