

Python Pandas activity

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Problem statement:

- 1) Find the statistical Analysis on Employee Payroll dataset (**Refer Data Set 5**)
 - a. Find the employee who is having maximum salary
 - b. Find the employee who's job title is Chief Human Resources
 - c. Find the experience of all the employee
 - d. Find the total basic pays of employee in Fiscal Quarter 4
 - e. Clean the dataset if record is empty with 0 values or delete incomplete data row
 - f. Find the employee summation of all employee salary those who are from working in "PROVIDENT HOSPITAL"
 - g. Find frequency count of all job titles

Code:

```
import pandas as pd
```

```
df = pd.read_csv('Dataset5.csv')
```

```
print(df)
```

```
max_sal=df.groupby('First Name')['Base Pay'].idxmax()
```

```
print('1)employee with max salary:\n',max_sal)
```

```
chief_hr= df.groupby('Job Title')['First Name'].get_group(('Chief of Human Resources'))
```

```
print('2)employee with job title Chief of Human Resources :\n',chief_hr)
```

```
current_year = 2023 # Replace with the current year
```

```
df['Experience'] = current_year - df['Original Hire Date']
```

```
print('3)experience of the employees:\n',df)
```

```
fs_qrt4_tp = df.groupby('Fiscal Quarter')['Base Pay'].get_group(4).sum()
```

```
print('4)total basic pay of the fisal year quarter 4:\n',fs_qrt4_tp)
```

```
df.fillna(0, inplace=True)
```

```
df.dropna(inplace=True)
```

```
print('5)after:Cleaning the dataset if record is empty with 0 values or deleting incomplete data row\n',df)
```

```
provident_hospital_sum = df.groupby('Office Name')['Base Pay'].get_group('PROVIDENT HOSPITAL').sum()
```

```
print('6)total payment of provident haspital:\n',provident_hospital_sum)
```

```
job_counts = df['Job Title'].value_counts()
```

```
print('7)job counts:\n',job_counts)
```

Output:

| | Fiscal Year | Fiscal Quarter | ... | Position ID | Original Hire Date |
|----|-------------|----------------|-----|-------------|--------------------|
| 0 | 2016 | 1 | ... | 9510200 | 1905 |
| 1 | 2016 | 2 | ... | 9510200 | 2005 |
| 2 | 2017 | 3 | ... | 9510200 | 2005 |
| 3 | 2017 | 1 | ... | 9500731 | 2008 |
| 4 | 2017 | 2 | ... | 9500731 | 1998 |
| 5 | 2017 | 3 | ... | 9500731 | 1998 |
| 6 | 2017 | 4 | ... | 9500731 | 1998 |
| 7 | 2016 | 1 | ... | 1100069 | 2013 |
| 8 | 2016 | 2 | ... | 1100069 | 2013 |
| 9 | 2016 | 3 | ... | 1100069 | 2013 |
| 10 | 2016 | 4 | ... | 1100069 | 2013 |
| 11 | 2017 | 1 | ... | 1100069 | 2013 |
| 12 | 2017 | 2 | ... | 1100069 | 2013 |
| 13 | 2017 | 3 | ... | 1100069 | 2013 |
| 14 | 2017 | 4 | ... | 1100069 | 2013 |
| 15 | 2016 | 3 | ... | 1600398 | 2016 |
| 16 | 2016 | 3 | ... | 1600398 | 2016 |
| 17 | 2016 | 3 | ... | 1600398 | 2016 |
| 18 | 2016 | 3 | ... | 1600398 | 2016 |
| 19 | 2016 | 1 | ... | 800380 | 2009 |
| 20 | 2016 | 2 | ... | 800380 | 2009 |
| 21 | 2016 | 3 | ... | 800380 | 2009 |
| 22 | 2016 | 4 | ... | 800380 | 2009 |

| | | | | |
|----|------|-------|--------|------|
| 23 | 2017 | 1 ... | 800380 | 2009 |
| 24 | 2017 | 2 ... | 800380 | 2009 |

[25 rows x 13 columns]

1)employee with max salary:

First Name

AMOL 16

AMRITH 1

DAVID 6

GLADYS 20

ROHIT 15

RUTH 17

SHABIRHUSAIN 14

Name: Base Pay, dtype: int64

2)employee with job title Chief of Human Resources :

19 GLADYS

20 GLADYS

21 GLADYS

22 GLADYS

23 GLADYS

24 GLADYS

Name: First Name, dtype: object

3)experience of the employees:

| | Fiscal Year | Fiscal Quarter | ... | Original Hire Date | Experience |
|---|-------------|----------------|-----|--------------------|------------|
| 0 | 2016 | 1 ... | | 1905 | 118 |
| 1 | 2016 | 2 ... | | 2005 | 18 |
| 2 | 2017 | 3 ... | | 2005 | 18 |
| 3 | 2017 | 1 ... | | 2008 | 15 |
| 4 | 2017 | 2 ... | | 1998 | 25 |

| | | | | |
|----|------|-------|------|----|
| 5 | 2017 | 3 ... | 1998 | 25 |
| 6 | 2017 | 4 ... | 1998 | 25 |
| 7 | 2016 | 1 ... | 2013 | 10 |
| 8 | 2016 | 2 ... | 2013 | 10 |
| 9 | 2016 | 3 ... | 2013 | 10 |
| 10 | 2016 | 4 ... | 2013 | 10 |
| 11 | 2017 | 1 ... | 2013 | 10 |
| 12 | 2017 | 2 ... | 2013 | 10 |
| 13 | 2017 | 3 ... | 2013 | 10 |
| 14 | 2017 | 4 ... | 2013 | 10 |
| 15 | 2016 | 3 ... | 2016 | 7 |
| 16 | 2016 | 3 ... | 2016 | 7 |
| 17 | 2016 | 3 ... | 2016 | 7 |
| 18 | 2016 | 3 ... | 2016 | 7 |
| 19 | 2016 | 1 ... | 2009 | 14 |
| 20 | 2016 | 2 ... | 2009 | 14 |
| 21 | 2016 | 3 ... | 2009 | 14 |
| 22 | 2016 | 4 ... | 2009 | 14 |
| 23 | 2017 | 1 ... | 2009 | 14 |
| 24 | 2017 | 2 ... | 2009 | 14 |

[25 rows x 14 columns]

4)total basic pay of the fisal year quarter 4:

212127.420000000004

5)after:Cleaning the dataset if record is empty with 0 values or deleting incomplete data row

| | Fiscal Year | Fiscal Quarter | ... | Original Hire Date | Experience |
|---|-------------|----------------|-----|--------------------|------------|
| 0 | 2016 | 1 ... | | 1905 | 118 |
| 1 | 2016 | 2 ... | | 2005 | 18 |
| 2 | 2017 | 3 ... | | 2005 | 18 |

| | | | | |
|----|------|-------|------|----|
| 3 | 2017 | 1 ... | 2008 | 15 |
| 4 | 2017 | 2 ... | 1998 | 25 |
| 5 | 2017 | 3 ... | 1998 | 25 |
| 6 | 2017 | 4 ... | 1998 | 25 |
| 7 | 2016 | 1 ... | 2013 | 10 |
| 8 | 2016 | 2 ... | 2013 | 10 |
| 9 | 2016 | 3 ... | 2013 | 10 |
| 10 | 2016 | 4 ... | 2013 | 10 |
| 11 | 2017 | 1 ... | 2013 | 10 |
| 12 | 2017 | 2 ... | 2013 | 10 |
| 13 | 2017 | 3 ... | 2013 | 10 |
| 14 | 2017 | 4 ... | 2013 | 10 |
| 15 | 2016 | 3 ... | 2016 | 7 |
| 16 | 2016 | 3 ... | 2016 | 7 |
| 17 | 2016 | 3 ... | 2016 | 7 |
| 18 | 2016 | 3 ... | 2016 | 7 |
| 19 | 2016 | 1 ... | 2009 | 14 |
| 20 | 2016 | 2 ... | 2009 | 14 |
| 21 | 2016 | 3 ... | 2009 | 14 |
| 22 | 2016 | 4 ... | 2009 | 14 |
| 23 | 2017 | 1 ... | 2009 | 14 |
| 24 | 2017 | 2 ... | 2009 | 14 |

[25 rows x 14 columns]

6)total payment of provident haspital:

500517.58

7)job counts:

Job Title

Attending Physician XII 8

Chief of Human Resources 6

Residential Model Sr Anal III 4

Student Administrative Aide 4

Assistant State's Attorney 3

Name: count, dtype: int64