

# ***ASSIGNMENT 1: STATEMENT FORMATION***

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## **PROBLEM STATEMENT:**

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

# **1) EMPLOYEE WITH MAX SALARY:**

First Name

AMOL	16
AMRITH	1
DAVID	6
GLADYS	20

ROHIT 15  
RUTH 17  
SHABIRHUSAIN 14

**2) EMPLOYEE WITH JOB TITLE CHIEF OF HUMAN RESOURCES :**

19 GLADYS  
20 GLADYS  
21 GLADYS  
22 GLADYS  
23 GLADYS  
24 GLADYS

**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

**4) TOTAL BASIC PAY OF THE FISCAL 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

**6) TOTAL PAYMENT OF PROVIDENT HOSPITAL:**

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