

experiment - 3

AIM: To execute pandas program to display the details of jobs in descending sequence on job title.

Pseudocode:

- 1) Import the required library pandas as pd.
- 2) Create a Dataframe with columns job_title, job_id, min_salary, max_salary.
- 3) Use sort_values() method on job_title column with ascending=False to sort.
- 4) Display the sorted Dataframe.

Sample Input:

Job database (job_id, job_title, min_salary)

Sample Output:

job_id	job_title	min_salary	max_salary
st-man	stock manager	5500	8500
st-clerk	stock clerk	2008	5000
sh-clerk	shipping clerk	2500	5500
sa-rep	sales rep	6000	12008

Result:

Therefore the pandas program for sorting job titles in descending order executed suc


```
import pandas as pd
```

```
data = {
    'JOB_ID': ['AD_PRES', 'AD_VP', 'AD_ASST', 'FI_MGR', 'FI_ACCOUNT', 'AC_MGR', 'AC_ACCOUNT',
              'SA_MAN', 'SA_REP', 'PU_MAN', 'PU_CLERK', 'ST_MAN', 'ST_CLERK', 'SH_CLERK',
              'IT_PROG', 'MK_MAN', 'MK_REP', 'HR_REP', 'PR_REP'],
    'JOB_TITLE': ['President', 'Administration Vice President', 'Administration Assistant',
                  'Finance Manager', 'Accountant', 'Accounting Manager', 'Public Accountant',
                  'Sales Manager', 'Sales Representative', 'Purchasing Manager', 'Purchasing Clerk',
                  'Stock Manager', 'Stock Clerk', 'Shipping Clerk', 'Programmer',
                  'Marketing Manager', 'Marketing Representative', 'Human Resources Representative',
                  'Public Relations Representative'],
    'MIN_SALARY': [20080, 15000, 3000, 8200, 4200, 8200, 4200, 10000, 6000, 8000, 2500, 5500,
                  2008, 2500, 4000, 9000, 4000, 4000, 4500],
    'MAX_SALARY': [40000, 30000, 6000, 16000, 9000, 16000, 9000, 20080, 12008, 15000, 5500,
                  8500, 5000, 5500, 10000, 15000, 9000, 9000, 10500]
}
```

```
df = pd.DataFrame(data)
df.sort_values('JOB_TITLE', ascending=False, inplace=True)
print(df)
```

IDLE Shell 3.12.4

File Edit Shell Debug Options Window Help

Python 3.12.4 (tags/v3.12.4:8e8a4ba, Jun 6 2024, 19:30:16) [MSC v.1940 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>

```
= RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 1.py
[ 10  20  30  40  50  60  70  80  90 100 110 120 130 140 150 160 170 180
 190 200 210 220 230 240 250 260 270]
```

>>>

```
===== RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 2.py =====
[101 200 176]
```

>>>

```
===== RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 3.py =====
```

	JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
11	ST_MAN	Stock Manager	5500	8500
12	ST_CLERK	Stock Clerk	2008	5000
13	SH_CLERK	Shipping Clerk	2500	5500
8	SA_REP	Sales Representative	6000	12008
7	SA_MAN	Sales Manager	10000	20080
9	PU_MAN	Purchasing Manager	8000	15000
10	PU_CLERK	Purchasing Clerk	2500	5500
18	PR_REP	Public Relations Representative	4500	10500
6	AC_ACCOUNT	Public Accountant	4200	9000
14	IT_PROG	Programmer	4000	10000
0	AD_PRES	President	20080	40000
16	MK_REP	Marketing Representative	4000	9000
15	MK_MAN	Marketing Manager	9000	15000
17	HR_REP	Human Resources Representative	4000	9000
3	FI_MGR	Finance Manager	8200	16000
1	AD_VP	Administration Vice President	15000	30000
2	AD_ASST	Administration Assistant	3000	6000
5	AC_MGR	Accounting Manager	8200	16000
4	FI_ACCOUNT	Accountant	4200	9000

>>>