

1. Write a Pandas program to display the ID for those employees who did two or more jobs in the past.

EMPLOYEE_ID	START_DATE	END_DATE	JOB_ID	DEPARTMENT_ID
102	2001-01-13	2006-07-24	IT_PROG	60
101	1997-09-21	2001-10-27	AC_ACCOUNT	110
101	2001-10-28	2005-03-15	AC_MGR	110
201	2004-02-17	2007-12-19	MK_REP	20
114	2006-03-24	2007-12-31	ST_CLERK	50
122	2007-01-01	2007-12-31	ST_CLERK	50
200	1995-09-17	2001-06-17	AD_ASST	90
176	2006-03-24	2006-12-31	SA_REP	80
176	2007-01-01	2007-12-31	SA_MAN	80
200	2002-07-01	2006-12-31	AC_ACCOUNT	90

CODE AND OUTPUT:

```
2.Employee jobs.py - C:/Query processing/2.Employee jobs.py (3.11.1)
File Edit Format Run Options Window Help
import pandas as pd
data = {
    "EMPLOYEE_ID": [102, 101, 101, 201, 114, 122, 200, 176, 176, 200],
    "START_DATE": [
        "2001-01-13", "1997-09-21", "2001-10-28", "2004-02-17",
        "2006-03-24", "2007-01-01", "1995-09-17", "2006-03-24",
        "2007-01-01", "2002-07-01"
    ],
    "END_DATE": [
        "2006-07-24", "2001-10-27", "2005-03-15", "2007-12-19",
        "2007-12-31", "2007-12-31", "2001-06-17", "2006-12-31",
        "2007-12-31", "2006-12-31"
    ],
    "JOB_ID": [
        "IT_PROG", "AC_ACCOUNT", "AC_MGR", "MK_REP",
        "ST_CLERK", "ST_CLERK", "AD_ASST", "SA_REP",
        "SA_MAN", "AC_ACCOUNT"
    ],
    "DEPARTMENT_ID": [60, 110, 110, 20, 50, 50, 90, 80, 80, 90]
}
df = pd.DataFrame(data)
# Count the number of jobs per employee
job_counts = df.groupby('EMPLOYEE_ID').size()
# Select employees with two or more jobs
employees_with_multiple_jobs = job_counts[job_counts >= 2].index
# Display the IDs
print(job_counts)
print(employees_with_multiple_jobs.tolist())

IDLE Shell 3.11.1
File Edit Shell Debug Options Window Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Query processing/2.Employee jobs.py =====
EMPLOYEE_ID
101 2
102 1
114 1
122 1
176 2
200 2
201 1
dtype: int64
[101, 176, 200]
>>>
```