

2. 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:

```
2.py - C:/Users/keert/AppData/Local/Programs/Python/Python311/query processing new/2.py (3.11.4)
File Edit Format Run Options Window Help
import pandas as pd

# Sample data representing the job history of employees
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]
}

# Create DataFrame
df = pd.DataFrame(data)

# Group by EMPLOYEE_ID and count the number of jobs for each employee
job_counts = df.groupby('EMPLOYEE_ID').size()

# Filter employees who have done two or more jobs
employees_with_multiple_jobs = job_counts[job_counts >= 2].index

# Display the result
print(employees_with_multiple_jobs)
```

OUTPUT:

```
IDLE Shell 3.11.4
File Edit Shell Debug Options Window Help
Python 3.11.4 [tags/v3.11.4:d2340ef, Jun 7 2023, 05:45:37] [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> - RRSTART: C:/Users/keert/AppData/Local/Programs/Python/Python311/query processing new/2.py
>>> index([101, 176, 200], dtype='int64', name='EMPLOYEE_ID')
```