

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

PROGRAM:

```
import pandas as pd
```

```
# Creating a DataFrame with the given data
```

```
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)
```

```
# Convert START_DATE and END_DATE columns to datetime
```

```
df['START_DATE'] = pd.to_datetime(df['START_DATE'])
```

```
df['END_DATE'] = pd.to_datetime(df['END_DATE'])
```

```
# Group by EMPLOYEE_ID and count the number of unique JOB_IDs for each employee
```

```
job_counts = df.groupby('EMPLOYEE_ID')['JOB_ID'].nunique()
```

```
# Filter employees with two or more jobs
```

```
multiple_jobs_employees = job_counts[job_counts >= 2].index
```

```
# Display the result
```

```
result = df[df['EMPLOYEE_ID'].isin(multiple_jobs_employees)][['EMPLOYEE_ID']].drop_duplicates()  
print(result)
```

OUTPUT:

```
===== RESTART: C:/Users/PADMASRI/Documents/
```

	EMPLOYEE_ID
1	101
6	200
7	176