

2. write a pandas program to display the ID for those employee who did two or more jobs in the past.

Aim:-

To identify and display the EMPLOYEE-ID of employee who have held two or more different jobs in the past based on the Job history data.

Pseudo Code:-

- import the pandas library.
- Load the employee Job history data into a pandas DataFrame.
- Group the data by EMPLOYEE-ID and Count the unique JOB-ID values for each employee.
- Filter the result to include only employees with two or more unique Job IDs.
- Display the EMPLOYEE-ID for employee who met this criterion.

Sample Input:-

Employee-ID	Start-Date	End-Date	Job-ID	Department-ID
102	2001-01-13	2006-07-24	IT-PROG	60
101	1997-09-21	2001-10-21	AC-ACCOUNT	110
101	2001-10-28	2005-03-15	AE-MGR	110
801	2004-02-17	2007-12-19	MK-REP	20
176	2006-03-24	2006-12-31	SA-REP	80
176	2007-01-01	2007-12-31	SA-MAN	80

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Sample output

Employees who held two or more jobs

101

176

Results:

The code is executed successfully and got the output.

program:

```
import pandas as pd
```

```
# Sample data simulating job history for employees
```

```
data = {
```

```
    'employee_id': [1, 2, 1, 3, 4, 2, 1, 5],
```

```
    'job_id': [101, 102, 103, 104, 105, 106, 107, 108],
```

```
    'job_title': ['Manager', 'Analyst', 'Developer', 'Clerk', 'Sales', 'Consultant', 'Designer', 'HR']
```

```
}
```

```
# Create DataFrame
```

```
job_history = pd.DataFrame(data)
```

```
# Group by employee_id and filter for those with 2 or more job records
```

```
employees_with_multiple_jobs = job_history.groupby('employee_id').filter(lambda x: len(x) >= 2)
```

```
# Display the unique employee IDs with 2 or more jobs
```

```
employee_ids = employees_with_multiple_jobs['employee_id'].unique()
```

```
print("Employee IDs with two or more jobs:")
```

```
print(employee_ids)
```

output

Employee IDs with two or more jobs:

[1 2]