

[5-5. 현금흐름 구현]

```
In [1]: #pandas DataFrame 화면상 출력 한도 설정
import pandas as pd
pd.set_option('display.max_row', 500)
pd.set_option('display.max_columns', None)
pd.set_option('display.width', 200)
```

1. 한단계씩 현금흐름 추적하기

```
In [2]: from practice.astn0_overview import overview, idx, acc
from practice.astn1_sales import sales
from practice.astn2_cost import cost
from practice.astn3_equity import equity
from practice.astn4_loan import loan
```

```
In [3]: idxno = idx[0]

#운영계좌 잔액 확인
_ = acc.oprtg_bal_strt[idxno]
acc.tmp.addamt(idxno, _, note="월초 잔액")

#자기자본 인출
_ = equity.withdraw_equity_amount(idxno, acc.oprtg)
acc.tmp.addamt(idxno, _, note="자기자본 납입")

#사업비 추정
oprtg_estmtd = cost.estimate_cost_amt(idxno)

lncst_estmtd = 0
for ln in loan.getloan(reverse=True):
    lncst_estmtd += ln.estimate_fee_amt(idxno)
    lncst_estmtd += ln.estimate_IR_amt(idxno)

cst_estmtd = oprtg_estmtd + lncst_estmtd
acc.tmp.subscd(idxno, cst_estmtd, note="추정 사업비")

#분양매출 인식
for sls in sales.dct.values():
    _ = sls.get_salesamt(acc.oprtg, idxno)
    acc.tmp.addamt(idxno, _, note=f"분양매출({sls.name})")

#대출원금 인출
for ln in loan.getloan(reverse=True):
    ln.set_loan_withdrawable(idxno)
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_ = ln.withdraw_ntnl_fixed(acc.oprtg, idxno)
acc.tmp.addamt(idxno, _, note=f"일시대출금({ln.name})")

for ln in loan.getloan(reverse=True):
    _ = ln.withdraw_ntnl_flexible(acc.tmp, acc.oprtg, idxno)
    acc.tmp.addamt(idxno, _, note=f"한도대출금({ln.name})")

#금융비용 지출
for ln in loan.getloan(reverse=False):
    fee = ln.pay_fee_amt(acc.oprtg, idxno)
    IR = ln.pay_IR_amt(acc.oprtg, idxno)
    acc.tmp.subamt(idxno, fee, note=f"수수료({ln.name})")
    acc.tmp.subamt(idxno, IR, note=f"이자({ln.name})")

#일반사업비 지출
_ = cost.pay_cost_amt(acc.oprtg, idxno)
acc.tmp.subamt(idxno, _, note="일반사업비")

#대출원금 상환
for ln in loan.getloan(reverse=False):
    amtrpy = ln.repay_ntnl_amt(acc.oprtg, idxno)
    acc.tmp.subamt(idxno, amtrpy, note=f"대출금상환({ln.name})")
    ln.setback_loan_unwithdrawable(idxno)

#임시계좌 현금 조정
acc.tmp.subamt(idxno, acc.tmp.bal_end[idxno], note="임시계좌 잔액 조정")

```

In [4]: acc.tmp.jnlscd

Out[4]:

	amt_in	amt_out	rcvfrm	payto	note
2023-01-31	0	0.0	None	None	추정 사업비

In [5]: acc.tmp.jnl

Out[5]:

	amt_in	amt_out	rcvfrm	payto	note
2023-01-31	5000	0	None	None	자기자본 납입
2023-01-31	0	5000.0	None	None	임시계좌 잔액 조정

In [6]: acc.oprtg.df

Out[6]:

	bal_strt	amt_in	amt_out	bal_end
2023-01-31	0.0	5000.0	0.0	5000.0
2023-02-28	5000.0	0.0	0.0	5000.0
2023-03-31	5000.0	0.0	0.0	5000.0
2023-04-30	5000.0	0.0	0.0	5000.0
2023-05-31	5000.0	0.0	0.0	5000.0
2023-06-30	5000.0	0.0	0.0	5000.0
2023-07-31	5000.0	0.0	0.0	5000.0
2023-08-31	5000.0	0.0	0.0	5000.0
2023-09-30	5000.0	0.0	0.0	5000.0
2023-10-31	5000.0	0.0	0.0	5000.0
2023-11-30	5000.0	0.0	0.0	5000.0
2023-12-31	5000.0	0.0	0.0	5000.0
2024-01-31	5000.0	0.0	0.0	5000.0
2024-02-29	5000.0	0.0	0.0	5000.0
2024-03-31	5000.0	0.0	0.0	5000.0
2024-04-30	5000.0	0.0	0.0	5000.0
2024-05-31	5000.0	0.0	0.0	5000.0
2024-06-30	5000.0	0.0	0.0	5000.0
2024-07-31	5000.0	0.0	0.0	5000.0
2024-08-31	5000.0	0.0	0.0	5000.0
2024-09-30	5000.0	0.0	0.0	5000.0
2024-10-31	5000.0	0.0	0.0	5000.0
2024-11-30	5000.0	0.0	0.0	5000.0
2024-12-31	5000.0	0.0	0.0	5000.0
2025-01-31	5000.0	0.0	0.0	5000.0
2025-02-28	5000.0	0.0	0.0	5000.0
2025-03-31	5000.0	0.0	0.0	5000.0
2025-04-30	5000.0	0.0	0.0	5000.0
2025-05-31	5000.0	0.0	0.0	5000.0
2025-06-30	5000.0	0.0	0.0	5000.0

In [7]: acc.oprtg.jnl

Out[7]:

	amt_in	amt_out	rcvfrm	payto	note
2023-01-31	5000	0	보통주	None	자기자본 납입

In []:

2. For문을 통해 일괄적으로 현금흐름 추적하기

```
In [8]: from practice.astn0_overview import overview, idx, acc
from practice.astn1_sales import sales
from practice.astn2_cost import cost
from practice.astn3_equity import equity
from practice.astn4_loan import loan
```

```
In [9]: for idxno in idx:
    #운영계좌 잔액 확인
    _ = acc.oprtg.bal_strt[idxno]
    acc.tmp.addamt(idxno, _, note="월초 잔액")

    #자기자본 인출
    _ = equity.withdraw_equity_amount(idxno, acc.oprtg)
    acc.tmp.addamt(idxno, _, note="자기자본 납입")

    #사업비 추정
    oprtg_estmtd = cost.estimate_cost_amt(idxno)

    lncst_estmtd = 0
    for ln in loan.getloan(reverse=True):
        lncst_estmtd += ln.estimate_fee_amt(idxno)
        lncst_estmtd += ln.estimate_IR_amt(idxno)

    cst_estmtd = oprtg_estmtd + lncst_estmtd
    acc.tmp.subscd(idxno, cst_estmtd, note="추정 사업비")

    #분양매출 인식
    for sls in sales.dct.values():
        _ = sls.get_salesamt(acc.oprtg, idxno)
        acc.tmp.addamt(idxno, _, note=f"분양매출({sls.name})")

    #대출원금 인출
    for ln in loan.getloan(reverse=True):
        ln.set_loan_withdrawable(idxno)
        _ = ln.withdraw_ntnl_fixed(acc.oprtg, idxno)
        acc.tmp.addamt(idxno, _, note=f"일시대출금({ln.name})")

    for ln in loan.getloan(reverse=True):
```

```

_ = ln.withdraw_ntnl_flexible(acc.tmp, acc.oprtg, idxno)
acc.tmp.addamt(idxno, _, note=f"한도대출금({ln.name})")

#금융비용 지출
for ln in loan.getloan(reverse=False):
    fee = ln.pay_fee_amt(acc.oprtg, idxno)
    IR = ln.pay_IR_amt(acc.oprtg, idxno)
    acc.tmp.subamt(idxno, fee, note=f"수수료({ln.name})")
    acc.tmp.subamt(idxno, IR, note=f"이자({ln.name})")

#일반사업비 지출
_ = cost.pay_cost_amt(acc.oprtg, idxno)
acc.tmp.subamt(idxno, _, note="일반사업비")

#대출원금 상환
for ln in loan.getloan(reverse=False):
    amtrpy = ln.repay_ntnl_amt(acc.oprtg, idxno)
    acc.tmp.subamt(idxno, amtrpy, note=f"대출금상환({ln.name})")
    ln.setback_loan_unwithdrawable(idxno)

#자기자본 상환
if idxno == idx[-1]: #at business end
    _ = equity.repay_equity_amt(idxno, acc.oprtg)
    acc.tmp.subamt(idxno, _, note="자기자본 상환")

#임시계좌 현금 조정
acc.tmp.subamt(idxno, acc.tmp.bal_end[idxno], note="임시계좌 잔액
조정")

```

In [10]: acc.tmp.jnl

Out[10]:

	amt_in	amt_out	rcvfrm	payto	note
2023-01-31	5000	0	None	None	자기자본 납입
2023-01-31	0	5000.0	None	None	임시계좌 잔액 조정
2023-01-31	5000	0	None	None	자기자본 납입
2023-01-31	0	5000.0	None	None	임시계좌 잔액 조정
2023-02-28	10000.0	0	None	None	월초 잔액
2023-02-28	0	10000.0	None	None	임시계좌 잔액 조정
2023-03-31	10000.0	0	None	None	월초 잔액
2023-03-31	5000	0	None	None	일시대출금(trb)
2023-03-31	5000	0	None	None	일시대출금(tra)
2023-03-31	4800.0	0	None	None	한도대출금(tra)
2023-03-31	0	800.0	None	None	수수료(tra)
2023-03-31	0	300.0	None	None	수수료(trb)
2023-03-31	0	23663.888889	None	None	일반사업비

2023-03-31	0	36.111111	None	None	임시계좌 잔액 조정
2023-04-30	36.111111	0	None	None	월초 잔액
2023-04-30	1448.0	0	None	None	분양매출(오피)
2023-04-30	700.0	0	None	None	한도대출금(tra)
2023-04-30	0	49.0	None	None	이자(tra)
2023-04-30	0	37.5	None	None	이자(trb)
2023-04-30	0	2038.590389	None	None	일반사업비
2023-04-30	0	59.020722	None	None	임시계좌 잔액 조정
2023-05-31	59.020722	0	None	None	월초 잔액
2023-05-31	600.0	0	None	None	한도대출금(tra)
2023-05-31	0	52.5	None	None	이자(tra)
2023-05-31	0	37.5	None	None	이자(trb)
2023-05-31	0	505.161389	None	None	일반사업비
2023-05-31	0	63.859333	None	None	임시계좌 잔액 조정
2023-06-30	63.859333	0	None	None	월초 잔액
2023-06-30	600.0	0	None	None	한도대출금(tra)
2023-06-30	0	55.5	None	None	이자(tra)
2023-06-30	0	37.5	None	None	이자(trb)
2023-06-30	0	570.055889	None	None	일반사업비
2023-06-30	0	0.803444	None	None	임시계좌 잔액 조정
2023-07-31	0.803444	0	None	None	월초 잔액
2023-07-31	600.0	0	None	None	한도대출금(tra)
2023-07-31	0	58.5	None	None	이자(tra)
2023-07-31	0	37.5	None	None	이자(trb)
2023-07-31	0	461.898389	None	None	일반사업비
2023-07-31	0	42.905056	None	None	임시계좌 잔액 조정
2023-08-31	42.905056	0	None	None	월초 잔액
2023-08-31	600.0	0	None	None	한도대출금(tra)
2023-08-31	0	61.5	None	None	이자(tra)
2023-08-31	0	37.5	None	None	이자(trb)
2023-08-31	0	526.792889	None	None	일반사업비
2023-08-31	0	17.112167	None	None	임시계좌 잔액 조정
2023-09-30	17.112167	0	None	None	월초 잔액
2023-09-30	1448.0	0	None	None	분양매출(오피)

2023-09-30	0	64.5	None	None	이자(tra)
2023-09-30	0	37.5	None	None	이자(trb)
2023-09-30	0	678.213389	None	None	일반사업비
2023-09-30	0	684.898778	None	None	임시계좌 잔액 조정
2023-10-31	684.898778	0	None	None	월초 잔액
2023-10-31	2896.0	0	None	None	분양매출(오피)
2023-10-31	0	64.5	None	None	이자(tra)
2023-10-31	0	37.5	None	None	이자(trb)
2023-10-31	0	1553.633889	None	None	일반사업비
2023-10-31	0	1925.264889	None	None	임시계좌 잔액 조정
2023-11-30	1925.264889	0	None	None	월초 잔액
2023-11-30	0	64.5	None	None	이자(tra)
2023-11-30	0	37.5	None	None	이자(trb)
2023-11-30	0	916.159889	None	None	일반사업비
2023-11-30	0	907.105	None	None	임시계좌 잔액 조정
2023-12-31	907.105	0	None	None	월초 잔액
2023-12-31	100.0	0	None	None	한도대출금(tra)
2023-12-31	0	64.5	None	None	이자(tra)
2023-12-31	0	37.5	None	None	이자(trb)
2023-12-31	0	851.265389	None	None	일반사업비
2023-12-31	0	53.839611	None	None	임시계좌 잔액 조정
2024-01-31	53.839611	0	None	None	월초 잔액
2024-01-31	900.0	0	None	None	한도대출금(tra)
2024-01-31	0	65.0	None	None	이자(tra)
2024-01-31	0	37.5	None	None	이자(trb)
2024-01-31	0	829.633889	None	None	일반사업비
2024-01-31	0	21.705722	None	None	임시계좌 잔액 조정
2024-02-29	21.705722	0	None	None	월초 잔액
2024-02-29	2896.0	0	None	None	분양매출(오피)
2024-02-29	0	69.5	None	None	이자(tra)
2024-02-29	0	37.5	None	None	이자(trb)
2024-02-29	0	829.633889	None	None	일반사업비
2024-02-29	0	1981.071833	None	None	임시계좌 잔액 조정
2024-03-31	1981.071833	0	None	None	월초 잔액

2024-03-31	0	69.5	None	None	이자(tra)
2024-03-31	0	37.5	None	None	이자(trb)
2024-03-31	0	959.422889	None	None	일반사업비
2024-03-31	0	914.648944	None	None	임시계좌 잔액 조정
2024-04-30	914.648944	0	None	None	월초 잔액
2024-04-30	4344.0	0	None	None	분양매출(오피)
2024-04-30	0	69.5	None	None	이자(tra)
2024-04-30	0	37.5	None	None	이자(trb)
2024-04-30	0	1878.106389	None	None	일반사업비
2024-04-30	0	3273.542556	None	None	임시계좌 잔액 조정
2024-05-31	3273.542556	0	None	None	월초 잔액
2024-05-31	0	69.5	None	None	이자(tra)
2024-05-31	0	37.5	None	None	이자(trb)
2024-05-31	0	1413.684389	None	None	일반사업비
2024-05-31	0	1752.858167	None	None	임시계좌 잔액 조정
2024-06-30	1752.858167	0	None	None	월초 잔액
2024-06-30	100.0	0	None	None	한도대출금(tra)
2024-06-30	0	69.5	None	None	이자(tra)
2024-06-30	0	37.5	None	None	이자(trb)
2024-06-30	0	1673.262389	None	None	일반사업비
2024-06-30	0	72.595778	None	None	임시계좌 잔액 조정
2024-07-31	72.595778	0	None	None	월초 잔액
2024-07-31	4344.0	0	None	None	분양매출(오피)
2024-07-31	0	70.0	None	None	이자(tra)
2024-07-31	0	37.5	None	None	이자(trb)
2024-07-31	0	1824.682889	None	None	일반사업비
2024-07-31	0	2484.412889	None	None	임시계좌 잔액 조정
2024-08-31	2484.412889	0	None	None	월초 잔액
2024-08-31	0	70.0	None	None	이자(tra)
2024-08-31	0	37.5	None	None	이자(trb)
2024-08-31	0	1911.208889	None	None	일반사업비
2024-08-31	0	465.704	None	None	임시계좌 잔액 조정
2024-09-30	465.704	0	None	None	월초 잔액
2024-09-30	1500.0	0	None	None	한도대출금(tra)

2024-09-30	0	70.0	None	None	이자(tra)
2024-09-30	0	37.5	None	None	이자(trb)
2024-09-30	0	1846.314389	None	None	일반사업비
2024-09-30	0	11.889611	None	None	임시계좌 잔액 조정
2024-10-31	11.889611	0	None	None	월초 잔액
2024-10-31	5792.0	0	None	None	분양매출(오피)
2024-10-31	0	77.5	None	None	이자(tra)
2024-10-31	0	37.5	None	None	이자(trb)
2024-10-31	0	2483.788389	None	None	일반사업비
2024-10-31	0	3205.101222	None	None	임시계좌 잔액 조정
2024-11-30	3205.101222	0	None	None	월초 잔액
2024-11-30	0	77.5	None	None	이자(tra)
2024-11-30	0	37.5	None	None	이자(trb)
2024-11-30	0	1651.630889	None	None	일반사업비
2024-11-30	0	1438.470333	None	None	임시계좌 잔액 조정
2024-12-31	1438.470333	0	None	None	월초 잔액
2024-12-31	5792.0	0	None	None	분양매출(오피)
2024-12-31	0	77.5	None	None	이자(tra)
2024-12-31	0	37.5	None	None	이자(trb)
2024-12-31	0	1521.841889	None	None	일반사업비
2024-12-31	0	5593.628444	None	None	임시계좌 잔액 조정
2025-01-31	5593.628444	0	None	None	월초 잔액
2025-01-31	0	77.5	None	None	이자(tra)
2025-01-31	0	37.5	None	None	이자(trb)
2025-01-31	0	1327.158389	None	None	일반사업비
2025-01-31	0	4151.470056	None	None	임시계좌 잔액 조정
2025-02-28	4151.470056	0	None	None	월초 잔액
2025-02-28	0	77.5	None	None	이자(tra)
2025-02-28	0	37.5	None	None	이자(trb)
2025-02-28	0	1024.317389	None	None	일반사업비
2025-02-28	0	3012.152667	None	None	임시계좌 잔액 조정
2025-03-31	3012.152667	0	None	None	월초 잔액
2025-03-31	0	77.5	None	None	이자(tra)
2025-03-31	0	37.5	None	None	이자(trb)

2025-03-31	0	1313.423467	None	None	일반사업비
2025-03-31	0	1583.7292	None	None	임시계좌 잔액 조정
2025-04-30	1583.7292	0	None	None	월초 잔액
2025-04-30	43440.0	0	None	None	분양매출(오피)
2025-04-30	5600.0	0	None	None	분양매출(근생)
2025-04-30	0	77.5	None	None	이자(tra)
2025-04-30	0	37.5	None	None	이자(trb)
2025-04-30	0	1337.688889	None	None	일반사업비
2025-04-30	0	49171.040311	None	None	임시계좌 잔액 조정
2025-05-31	49171.040311	0	None	None	월초 잔액
2025-05-31	0	77.5	None	None	이자(tra)
2025-05-31	0	37.5	None	None	이자(trb)
2025-05-31	0	28.888889	None	None	일반사업비
2025-05-31	0	15500.0	None	None	대출금상환(tra)
2025-05-31	0	5000.0	None	None	대출금상환(trb)
2025-05-31	0	28527.151422	None	None	임시계좌 잔액 조정
2025-06-30	28527.151422	0	None	None	월초 잔액
2025-06-30	0	28527.151422	None	None	자기자본 상환

In [11]: `acc.oprtg.jnl`

Out[11]:

	amt_in	amt_out	rcvfrm	payto	note
2023-01-31	5000	0	보통주	None	자기자본 납입
2023-01-31	5000	0	보통주	None	자기자본 납입
2023-03-31	5000	0	ntnl	None	일시대출금(trb)
2023-03-31	5000	0	ntnl	None	일시대출금(tra)
2023-03-31	4800.0	0	ntnl	None	한도대출금(tra)
...
2025-05-31	0	37.5	None	IR	이자(trb)
2025-05-31	0	28.888889	None	예비비	예비비
2025-05-31	0	15500.0	None	ntnl	대출금상환(tra)
2025-05-31	0	5000.0	None	ntnl	대출금상환(trb)
2025-06-30	0	28527.151422	None	보통주	자기자본상환(보통주)

248 rows × 5 columns

In [12]: `acc.oprtg.df`

Out[12]:

	bal_strt	amt_in	amt_out	bal_end
2023-01-31	0.000000	10000.0	0.000000	10000.000000
2023-02-28	10000.000000	0.0	0.000000	10000.000000
2023-03-31	10000.000000	14800.0	24763.888889	36.111111
2023-04-30	36.111111	2148.0	2125.090389	59.020722
2023-05-31	59.020722	600.0	595.161389	63.859333
2023-06-30	63.859333	600.0	663.055889	0.803444
2023-07-31	0.803444	600.0	557.898389	42.905056
2023-08-31	42.905056	600.0	625.792889	17.112167
2023-09-30	17.112167	1448.0	780.213389	684.898778
2023-10-31	684.898778	2896.0	1655.633889	1925.264889
2023-11-30	1925.264889	0.0	1018.159889	907.105000
2023-12-31	907.105000	100.0	953.265389	53.839611
2024-01-31	53.839611	900.0	932.133889	21.705722
2024-02-29	21.705722	2896.0	936.633889	1981.071833
2024-03-31	1981.071833	0.0	1066.422889	914.648944
2024-04-30	914.648944	4344.0	1985.106389	3273.542556
2024-05-31	3273.542556	0.0	1520.684389	1752.858167
2024-06-30	1752.858167	100.0	1780.262389	72.595778
2024-07-31	72.595778	4344.0	1932.182889	2484.412889
2024-08-31	2484.412889	0.0	2018.708889	465.704000
2024-09-30	465.704000	1500.0	1953.814389	11.889611
2024-10-31	11.889611	5792.0	2598.788389	3205.101222
2024-11-30	3205.101222	0.0	1766.630889	1438.470333
2024-12-31	1438.470333	5792.0	1636.841889	5593.628444
2025-01-31	5593.628444	0.0	1442.158389	4151.470056
2025-02-28	4151.470056	0.0	1139.317389	3012.152667
2025-03-31	3012.152667	0.0	1428.423467	1583.729200
2025-04-30	1583.729200	49040.0	1452.688889	49171.040311
2025-05-31	49171.040311	0.0	20643.888889	28527.151422
2025-06-30	28527.151422	0.0	28527.151422	0.000000

In [13]: sales.오피.dfall

Out[13]:

Output :

	scd_in	scd_in_cum	scd_out	scd_out_cum	bal_strt	amt_in	amt_in_cum	amt_out
2023-01-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-02-28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-03-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-04-30	0.0	0.0	1448.0	1448.0	0.0	0.0	0.0	1448.0
2023-05-31	0.0	0.0	0.0	1448.0	-1448.0	0.0	0.0	0.0
2023-06-30	0.0	0.0	0.0	1448.0	-1448.0	0.0	0.0	0.0
2023-07-31	0.0	0.0	0.0	1448.0	-1448.0	0.0	0.0	0.0
2023-08-31	0.0	0.0	0.0	1448.0	-1448.0	0.0	0.0	0.0
2023-09-30	0.0	0.0	1448.0	2896.0	-1448.0	0.0	0.0	1448.0
2023-10-31	0.0	0.0	2896.0	5792.0	-2896.0	0.0	0.0	2896.0
2023-11-30	0.0	0.0	0.0	5792.0	-5792.0	0.0	0.0	0.0
2023-12-31	0.0	0.0	0.0	5792.0	-5792.0	0.0	0.0	0.0
2024-01-31	0.0	0.0	0.0	5792.0	-5792.0	0.0	0.0	0.0
2024-02-29	0.0	0.0	2896.0	8688.0	-5792.0	0.0	0.0	2896.0
2024-03-31	0.0	0.0	0.0	8688.0	-8688.0	0.0	0.0	0.0
2024-04-30	0.0	0.0	4344.0	13032.0	-8688.0	0.0	0.0	4344.0
2024-05-31	0.0	0.0	0.0	13032.0	-13032.0	0.0	0.0	0.0
2024-06-30	0.0	0.0	0.0	13032.0	-13032.0	0.0	0.0	0.0
2024-07-31	0.0	0.0	4344.0	17376.0	-13032.0	0.0	0.0	4344.0
2024-08-31	0.0	0.0	0.0	17376.0	-17376.0	0.0	0.0	0.0
2024-09-30	0.0	0.0	0.0	17376.0	-17376.0	0.0	0.0	0.0

2024-10-31	0.0	0.0	5792.0	23168.0	-17376.0	0.0	0.0	5792.0
2024-11-30	0.0	0.0	0.0	23168.0	-23168.0	0.0	0.0	0.0
2024-12-31	0.0	0.0	5792.0	28960.0	-23168.0	0.0	0.0	5792.0
2025-01-31	0.0	0.0	0.0	28960.0	-28960.0	0.0	0.0	0.0
2025-02-28	0.0	0.0	0.0	28960.0	-28960.0	0.0	0.0	0.0
2025-03-31	0.0	0.0	0.0	28960.0	-28960.0	0.0	0.0	0.0
2025-04-30	0.0	0.0	43440.0	72400.0	-28960.0	0.0	0.0	43440.0
2025-05-31	0.0	0.0	0.0	72400.0	-72400.0	0.0	0.0	0.0
2025-06-30	0.0	0.0	0.0	72400.0	-72400.0	0.0	0.0	0.0

In [14]: sales.근생.dfall

Out[14]:

	scd_in	scd_in_cum	scd_out	scd_out_cum	bal_strt	amt_in	amt_in_cum	amt_out
2023-01-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-02-28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-03-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-04-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-05-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-06-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-07-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-08-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-09-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-10-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

11-30								
2023-12-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-01-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-02-29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-03-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-04-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-05-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-06-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-07-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-08-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-09-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-10-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-11-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-12-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2025-01-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2025-02-28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2025-03-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2025-04-30	0.0	0.0	5600.0	5600.0	0.0	0.0	0.0	5600.0
2025-05-31	0.0	0.0	0.0	5600.0	-5600.0	0.0	0.0	0.0
2025-06-30	0.0	0.0	0.0	5600.0	-5600.0	0.0	0.0	0.0

In [15]: `loan.tra.ntnl.dfall`

Out[15]:

<u>scd_in</u>	<u>scd_in_cum</u>	<u>scd_out</u>	<u>scd_out_cum</u>	<u>bal_strt</u>	<u>amt_in</u>	<u>amt_in_cum</u>	<u>amt_out</u>
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2023-01-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
2023-02-28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
2023-03-31	0.0	0.0	40000.0	40000.0	0.0	0.0	0.0	9800
2023-04-30	0.0	0.0	0.0	40000.0	-9800.0	0.0	0.0	700
2023-05-31	0.0	0.0	0.0	40000.0	-10500.0	0.0	0.0	600
2023-06-30	0.0	0.0	0.0	40000.0	-11100.0	0.0	0.0	600
2023-07-31	0.0	0.0	0.0	40000.0	-11700.0	0.0	0.0	600
2023-08-31	0.0	0.0	0.0	40000.0	-12300.0	0.0	0.0	600
2023-09-30	0.0	0.0	0.0	40000.0	-12900.0	0.0	0.0	0
2023-10-31	0.0	0.0	0.0	40000.0	-12900.0	0.0	0.0	0
2023-11-30	0.0	0.0	0.0	40000.0	-12900.0	0.0	0.0	0
2023-12-31	0.0	0.0	0.0	40000.0	-12900.0	0.0	0.0	100
2024-01-31	0.0	0.0	0.0	40000.0	-13000.0	0.0	0.0	900
2024-02-29	0.0	0.0	0.0	40000.0	-13900.0	0.0	0.0	0
2024-03-31	0.0	0.0	0.0	40000.0	-13900.0	0.0	0.0	0
2024-04-30	0.0	0.0	0.0	40000.0	-13900.0	0.0	0.0	0
2024-05-31	0.0	0.0	0.0	40000.0	-13900.0	0.0	0.0	0
2024-06-30	0.0	0.0	0.0	40000.0	-13900.0	0.0	0.0	100
2024-07-31	0.0	0.0	0.0	40000.0	-14000.0	0.0	0.0	0
2024-08-31	0.0	0.0	0.0	40000.0	-14000.0	0.0	0.0	0
2024-09-30	0.0	0.0	0.0	40000.0	-14000.0	0.0	0.0	1500
2024-10-31	0.0	0.0	0.0	40000.0	-15500.0	0.0	0.0	0

2024-11-30	0.0	0.0	0.0	40000.0	-15500.0	0.0	0.0	0
2024-12-31	0.0	0.0	0.0	40000.0	-15500.0	0.0	0.0	0
2025-01-31	0.0	0.0	0.0	40000.0	-15500.0	0.0	0.0	0
2025-02-28	0.0	0.0	0.0	40000.0	-15500.0	0.0	0.0	0
2025-03-31	0.0	0.0	0.0	40000.0	-15500.0	0.0	0.0	0
2025-04-30	0.0	0.0	0.0	40000.0	-15500.0	0.0	0.0	0
2025-05-31	40000.0	40000.0	0.0	40000.0	-15500.0	15500.0	15500.0	0
2025-06-30	0.0	40000.0	0.0	40000.0	0.0	0.0	15500.0	0

In []: