

[5-2. 추정결과 출력 파일 작성]

1. 기본 모듈 insert

```
In [ ]: import pandas as pd
pd.set_option('display.max_rows', 30)
pd.set_option('display.max_columns', 100)
pd.set_option('display.max_colwidth', 20)
pd.set_option('display.width', 300)

# DataFrame의 출력을 확장하여 한 줄로 계속 출력되도록 설정
pd.set_option('display.expand_frame_repr', True)

from m00_general_function import df_seperator
from m01_assumption import assumption
from m02_index import index
from m03_funding import funding
from m04_operating_income import operating_income
from m05_operating_cost import operating_cost
from m06_facility_cost import facility_cost
from m07_cashflow import cashflow, balance
```

2. 피벗테이블 return 함수 작성

```
In [ ]: def pivot_cashflow(cashflow=cashflow):
    cf_table = cashflow.copy()

    # 입금금액과 출금금액 간 차액 계산
```

```

cf_table['amount'] = cf_table['입금금액'] - cf_table['출금금액']
cf_table = cf_table[['date', 'categoryA', 'categoryB', 'categoryC', 'amount']]

# 피벗테이블 작성
cf_table = cf_table.pivot_table(
    values = 'amount',
    index = 'date',
    columns = ['categoryA', 'categoryB', 'categoryC'],
    aggfunc = 'sum'
).fillna(0).astype(int)

# 현금잔액 및 소계 데이터 추가
cf_table[('운영수입', '소계', '')] = operating_income['Total']['객실수입']
cf_table[('객실운영비', '소계', '')] = -operating_cost['객실운영비']['Total']
cf_table[('관리운영비', '소계', '')] = -operating_cost['관리운영비']['Total']
cf_table[('인건비', '소계', '')] = -operating_cost['인건비']['Total']
cf_table[('시설관리비', '소계', '')] = -facility_cost['Total']
cf_table['기초현금'] = balance['기초현금']
cf_table['기말현금'] = balance['기말현금']

# 컬럼 순서 정리
cf_table = cf_table[[
    ('기초현금', '', ''),
    ('자금조달', '자기자본', '자기자본유입'),
    ('자금조달', '차입금', '차입금유입'),
    ('자산매입', '자산매입', '매입대금지출'),
    ('자산매입', '매입부수비용', '부수비용지출'),
    ('운영수입', '객실수입', 'TypeA'),
    ('운영수입', '객실수입', 'TypeB'),
    ('운영수입', '객실수입', 'TypeC'),
    ('운영수입', '소계', ''),
    ('객실운영비', '예약수수료', 'TypeA'),
    ('객실운영비', '예약수수료', 'TypeB'),
    ('객실운영비', '예약수수료', 'TypeC'),
    ('객실운영비', '청소세탁비', 'TypeA'),

```

```

    ( '객실운영비' , '청소세탁비' , 'TypeB' ) ,
    ( '객실운영비' , '청소세탁비' , 'TypeC' ) ,
    ( '객실운영비' , '수도광열비' , 'TypeA' ) ,
    ( '객실운영비' , '수도광열비' , 'TypeB' ) ,
    ( '객실운영비' , '수도광열비' , 'TypeC' ) ,
    ( '객실운영비' , '수도광열비' , 'Overhead' ) ,
    ( '객실운영비' , '소계' , '' ) ,
    ( '관리운영비' , '관리운영비' , '광고홍보비' ) ,
    ( '관리운영비' , '관리운영비' , '기타운영비' ) ,
    ( '관리운영비' , '소계' , '' ) ,
    ( '인건비' , '객실운영팀' , '임시직' ) ,
    ( '인건비' , '객실운영팀' , '정규직' ) ,
    ( '인건비' , '경영지원팀' , '임원' ) ,
    ( '인건비' , '경영지원팀' , '정규직' ) ,
    ( '인건비' , '마케팅팀' , '정규직' ) ,
    ( '인건비' , '시설관리팀' , '임시직' ) ,
    ( '인건비' , '시설관리팀' , '정규직' ) ,
    ( '인건비' , '소계' , '' ) ,
    ( '시설관리비' , '통상수선비' , 'TypeA' ) ,
    ( '시설관리비' , '통상수선비' , 'TypeB' ) ,
    ( '시설관리비' , '통상수선비' , 'TypeC' ) ,
    ( '시설관리비' , '대수선공사비' , 'TypeA' ) ,
    ( '시설관리비' , '대수선공사비' , 'TypeB' ) ,
    ( '시설관리비' , '대수선공사비' , 'TypeC' ) ,
    ( '시설관리비' , '소계' , '' ) ,
    ( '차입원리금상환' , '차입금' , '차입금상환' ) ,
    ( '차입원리금상환' , '차입금' , '차입이자' ) ,
    ( '기말현금' , '' , '' )
]]

return cf_table

```

```
In [ ]: pivot_cashflow(cashflow)
```

Out[]:

categoryA	기초현금		자금조달		자산매입		운영수입				
categoryB			자기자본	차입금	자산매입	매입부수비용			객실수입	소계	
categoryC			자기자본유입	차입금유입	매입대금지출	부수비용지출	TypeA	TypeB	TypeC		T
date											
2023-12-31	0	100000000000	100000000000	-180000000000	-10000000000	0	0	0	0		
2024-01-31	905871236	0	0	0	0	0	145080000	167400000	131750000	444230000	-435
2024-02-29	1144288339	0	0	0	0	0	128180000	147900000	116000000	392080000	-384
2024-03-31	1344733797	0	0	0	0	0	99200000	119040000	86800000	305040000	-297
2024-04-30	1425477400	0	0	0	0	0	96000000	115200000	84000000	295200000	-288
...
2026-09-30	1747490404	0	0	0	0	0	96000000	115200000	90000000	301200000	-288
2026-10-31	1820534619	0	0	0	0	0	99200000	119040000	93000000	311240000	-297
2026-11-30	1948705996	0	0	0	0	0	84000000	100800000	84000000	268800000	-252
2026-12-31	2046027396	0	0	0	0	0	145080000	167400000	139500000	451980000	-435
2027-01-31	1562197718	0	0	0	0	0	0	0	0	0	

38 rows x 41 columns

3. 엑셀파일 생성 함수 작성

```
In [ ]: def print_cashflow(cashflow=cashflow, file_name='cashflow_table.xlsx'):  
        cf_excel = pivot_cashflow(cashflow)  
        cf_excel.index = cf_excel.index.strftime('%Y-%m-%d')  
        cf_excel.to_excel(file_name)
```

```
In [ ]: print_cashflow(cashflow, 'cashflow_table_test.xlsx')
```

4. cashflow_results.py 파일 작성

4-1. 코드 내용을 새로 생성한 파일에 복사

- cashflow_results.py 파일 생성 후 코드 내용 복사

4-2. 객체 종합 dictionary 작성

```
In [ ]: dct = {  
        'assumption': assumption,  
        'index': index,  
        'funding': funding,  
        'operating_income': operating_income,  
        'operating_cost': operating_cost,  
        'facility_cost': facility_cost,  
        'cashflow': cashflow,  
        'balance': balance,  
        'pivot_cashflow': pivot_cashflow,  
        'print_cashflow': print_cashflow  
    }
```

5. cashflow_results.py 파일 사용

- "재시작" 클릭 후 아래 내용 진행

```
In [ ]: import m08_cashflow_results as cf
```

```
In [ ]: cf.pivot_cashflow()
```

Out[]:

categoryA	기초현금		자금조달		자산매입					운영수입	
categoryB			자기자본	차입금	자산매입	매입부수비용				객실수입	소계
categoryC			자기자본유입	차입금유입	매입대금지출	부수비용지출	TypeA	TypeB	TypeC		T
date											
2023-12-31		0	100000000000	100000000000	-180000000000	-10000000000	0	0	0	0	
2024-01-31	905871236		0	0	0	0	145080000	167400000	131750000	444230000	-435
2024-02-29	1144288339		0	0	0	0	128180000	147900000	116000000	392080000	-384
2024-03-31	1344733797		0	0	0	0	99200000	119040000	86800000	305040000	-297
2024-04-30	1425477400		0	0	0	0	96000000	115200000	84000000	295200000	-288
...
2026-09-30	1747490404		0	0	0	0	96000000	115200000	90000000	301200000	-288
2026-10-31	1820534619		0	0	0	0	99200000	119040000	93000000	311240000	-297
2026-11-30	1948705996		0	0	0	0	84000000	100800000	84000000	268800000	-252
2026-12-31	2046027396		0	0	0	0	145080000	167400000	139500000	451980000	-435
2027-01-31	1562197718		0	0	0	0	0	0	0	0	

38 rows x 41 columns

```
In [ ]: cf.cashflow
```

Out []:

	date	categoryA	categoryB	categoryC	입금금액	출금금액
0	2023-12-31	자금조달	자기자본	자기자본유입	100000000000	0
1	2023-12-31	자금조달	차입금	차입금유입	100000000000	0
2	2023-12-31	자산매입	자산매입	매입대금지출	0	180000000000
3	2023-12-31	자산매입	매입부수비용	부수비용지출	0	10000000000
4	2023-12-31	객실운영비	수도광열비	Overhead	0	3000000
...
957	2027-01-31	인건비	경영지원팀	정규직	0	10618434
958	2027-01-31	인건비	경영지원팀	임원	0	7865506
959	2027-01-31	인건비	마케팅팀	정규직	0	7078956
960	2027-01-31	인건비	시설관리팀	정규직	0	7078956
961	2027-01-31	인건비	시설관리팀	임시직	0	2949565

962 rows x 6 columns

```
In [ ]: cf.dct
```

Out []:

```
{'assumption': {'business_overview': {'사업개요': {'사업내용': '호텔건물 매입 및 운영 사업',
'건물명': 'FS호텔',
'주소': '서울시 강남구 테헤란로',
'건물규모': '지하1층/지상10층'},
'객실수': {'TypeA': 40, 'TypeB': 40, 'TypeC': 20},
'자산매입': {'자산매입금액': 180000000000, '매입부수비용': 10000000000}},
'period_assumptions': {'기본기간가정': {'모델시작일': datetime.datetime(2023, 12, 1, 0, 0),
'모델종료일': datetime.datetime(2027, 1, 31, 0, 0),
```



```

'운영시작일': datetime.datetime(2024, 1, 1, 0, 0),
'운영종료일': datetime.datetime(2026, 12, 31, 0, 0)},
'자산매입일정': {'자산매입일': datetime.datetime(2023, 12, 31, 0, 0),
'매입부수비용지급일': datetime.datetime(2023, 12, 31, 0, 0)},
'자금조달일정': {'자기자본유입일': datetime.datetime(2023, 12, 31, 0, 0),
'차입금유입일': datetime.datetime(2023, 12, 31, 0, 0),
'이자지급시작일': datetime.datetime(2024, 1, 1, 0, 0),
'이자지급종료일': datetime.datetime(2026, 12, 31, 0, 0),
'원금상환시작일': datetime.datetime(2024, 1, 1, 0, 0),
'원금상환종료일': datetime.datetime(2026, 12, 31, 0, 0)},
'연간인상률': {'판매단가': 0.05, '운영비': 0.03, '인건비': 0.05}},
'funding_assumptions': {'equity': {'amount': 10000000000,
'최초배당일': datetime.datetime(2025, 12, 31, 0, 0),
'배당률': 0.3},
'loan': {'amount': 10000000000,
'원금상환주기': 3,
'상환원금': 50000000,
'이자지급주기': 1,
'이자율': 0.05}},
'facility_cost': {'통상수선비': {'TypeA': 1000, 'TypeB': 1200, 'TypeC': 2000},
'대수선공사비': {'TypeA': 30000000, 'TypeB': 35000000, 'TypeC': 50000000},
'수선시작일': {'TypeA': datetime.datetime(2025, 3, 1, 0, 0),
'TypeB': datetime.datetime(2025, 4, 1, 0, 0),
'TypeC': datetime.datetime(2025, 5, 1, 0, 0)},
'수선종료일': {'TypeA': datetime.datetime(2025, 3, 31, 0, 0),
'TypeB': datetime.datetime(2025, 4, 30, 0, 0),
'TypeC': datetime.datetime(2025, 5, 31, 0, 0)}},
'monthly_occ_rate': {'TypeA': {1: 0.9,
2: 0.85,
3: 0.8,
4: 0.8,
5: 0.8,
6: 0.7,
7: 0.9,
8: 0.9,

```

```
9: 0.8,  
10: 0.8,  
11: 0.7,  
12: 0.9},  
'TypeB': {1: 0.9,  
2: 0.85,  
3: 0.8,  
4: 0.8,  
5: 0.8,  
6: 0.7,  
7: 0.9,  
8: 0.9,  
9: 0.8,  
10: 0.8,  
11: 0.7,  
12: 0.9},  
'TypeC': {1: 0.85,  
2: 0.8,  
3: 0.7,  
4: 0.7,  
5: 0.75,  
6: 0.7,  
7: 0.85,  
8: 0.85,  
9: 0.75,  
10: 0.75,  
11: 0.7,  
12: 0.9}},  
'monthly_price': {'TypeA': {1: 130000,  
2: 130000,  
3: 100000,  
4: 100000,  
5: 100000,  
6: 100000,  
7: 130000,
```

```
8: 130000,  
9: 100000,  
10: 100000,  
11: 100000,  
12: 130000},  
'TypeB': {1: 150000,  
2: 150000,  
3: 120000,  
4: 120000,  
5: 120000,  
6: 120000,  
7: 150000,  
8: 150000,  
9: 120000,  
10: 120000,  
11: 120000,  
12: 150000},  
'TypeC': {1: 250000,  
2: 250000,  
3: 200000,  
4: 200000,  
5: 200000,  
6: 200000,  
7: 250000,  
8: 250000,  
9: 200000,  
10: 200000,  
11: 200000,  
12: 250000}},  
'room_operating_cost': {'청소세탁비': {'TypeA': 10000,  
'TypeB': 12000,  
'TypeC': 20000},  
'수도광열비': {'TypeA': 5000,  
'TypeB': 6000,  
'TypeC': 10000,
```

```

    'Overhead': 3000000},
    '예약수수료율': {'TypeA': 0.03, 'TypeB': 0.03, 'TypeC': 0.03}},
    'management_cost': {'광고홍보비예산': {'amount': 200000000},
    '광고홍보비': {1: 0.15,
    2: 0.15,
    3: 0.05,
    4: 0.05,
    5: 0.05,
    6: 0.05,
    7: 0.1,
    8: 0.1,
    9: 0.05,
    10: 0.05,
    11: 0.05,
    12: 0.15},
    '기타운영비': {'amount': 10000000}},
    'salary_cost': {'employee_count': {'객실운영팀_정규직': 5,
    '객실운영팀_임시직': 2,
    '경영지원팀_임원': 1,
    '경영지원팀_정규직': 3,
    '마케팅팀_정규직': 2,
    '시설관리팀_정규직': 2,
    '시설관리팀_임시직': 1},
    'annual_salary': {'객실운영팀_정규직': 36000000,
    '객실운영팀_임시직': 30000000,
    '경영지원팀_임원': 80000000,
    '경영지원팀_정규직': 36000000,
    '마케팅팀_정규직': 36000000,
    '시설관리팀_정규직': 36000000,
    '시설관리팀_임시직': 30000000}}},
    'index': {'model': [datetime.datetime(2023, 12, 31, 0, 0),
    datetime.datetime(2024, 1, 31, 0, 0),
    datetime.datetime(2024, 2, 29, 0, 0),
    datetime.datetime(2024, 3, 31, 0, 0),
    datetime.datetime(2024, 4, 30, 0, 0),

```

```
datetime.datetime(2024, 5, 31, 0, 0),
datetime.datetime(2024, 6, 30, 0, 0),
datetime.datetime(2024, 7, 31, 0, 0),
datetime.datetime(2024, 8, 31, 0, 0),
datetime.datetime(2024, 9, 30, 0, 0),
datetime.datetime(2024, 10, 31, 0, 0),
datetime.datetime(2024, 11, 30, 0, 0),
datetime.datetime(2024, 12, 31, 0, 0),
datetime.datetime(2025, 1, 31, 0, 0),
datetime.datetime(2025, 2, 28, 0, 0),
datetime.datetime(2025, 3, 31, 0, 0),
datetime.datetime(2025, 4, 30, 0, 0),
datetime.datetime(2025, 5, 31, 0, 0),
datetime.datetime(2025, 6, 30, 0, 0),
datetime.datetime(2025, 7, 31, 0, 0),
datetime.datetime(2025, 8, 31, 0, 0),
datetime.datetime(2025, 9, 30, 0, 0),
datetime.datetime(2025, 10, 31, 0, 0),
datetime.datetime(2025, 11, 30, 0, 0),
datetime.datetime(2025, 12, 31, 0, 0),
datetime.datetime(2026, 1, 31, 0, 0),
datetime.datetime(2026, 2, 28, 0, 0),
datetime.datetime(2026, 3, 31, 0, 0),
datetime.datetime(2026, 4, 30, 0, 0),
datetime.datetime(2026, 5, 31, 0, 0),
datetime.datetime(2026, 6, 30, 0, 0),
datetime.datetime(2026, 7, 31, 0, 0),
datetime.datetime(2026, 8, 31, 0, 0),
datetime.datetime(2026, 9, 30, 0, 0),
datetime.datetime(2026, 10, 31, 0, 0),
datetime.datetime(2026, 11, 30, 0, 0),
datetime.datetime(2026, 12, 31, 0, 0),
datetime.datetime(2027, 1, 31, 0, 0)],
'operating': [datetime.datetime(2024, 1, 31, 0, 0),
datetime.datetime(2024, 2, 29, 0, 0),
```

```
datetime.datetime(2024, 3, 31, 0, 0),
datetime.datetime(2024, 4, 30, 0, 0),
datetime.datetime(2024, 5, 31, 0, 0),
datetime.datetime(2024, 6, 30, 0, 0),
datetime.datetime(2024, 7, 31, 0, 0),
datetime.datetime(2024, 8, 31, 0, 0),
datetime.datetime(2024, 9, 30, 0, 0),
datetime.datetime(2024, 10, 31, 0, 0),
datetime.datetime(2024, 11, 30, 0, 0),
datetime.datetime(2024, 12, 31, 0, 0),
datetime.datetime(2025, 1, 31, 0, 0),
datetime.datetime(2025, 2, 28, 0, 0),
datetime.datetime(2025, 3, 31, 0, 0),
datetime.datetime(2025, 4, 30, 0, 0),
datetime.datetime(2025, 5, 31, 0, 0),
datetime.datetime(2025, 6, 30, 0, 0),
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'이자지급': [datetime.datetime(2024, 1, 31, 0, 0),
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datetime.datetime(2026, 6, 30, 0, 0),
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datetime.datetime(2024, 7, 31, 0, 0),
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datetime.datetime(2024, 11, 30, 0, 0),
datetime.datetime(2024, 12, 31, 0, 0),
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datetime.datetime(2025, 6, 30, 0, 0),
datetime.datetime(2025, 7, 31, 0, 0),
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datetime.datetime(2025, 9, 30, 0, 0),
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datetime.datetime(2026, 5, 31, 0, 0),
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datetime.datetime(2026, 7, 31, 0, 0),
datetime.datetime(2026, 8, 31, 0, 0),
datetime.datetime(2026, 9, 30, 0, 0),
datetime.datetime(2026, 10, 31, 0, 0),
datetime.datetime(2026, 11, 30, 0, 0),
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datetime.datetime(2026, 12, 31, 0, 0)],
'수선TypeA': [datetime.datetime(2025, 3, 31, 0, 0)],
'수선TypeB': [datetime.datetime(2025, 4, 30, 0, 0)],
'수선TypeC': [datetime.datetime(2025, 5, 31, 0, 0)],
'연간인상률':          판매단가      운영비      인건비
2023-12-31  1.000000  1.000000  1.000000
2024-01-31  1.000000  1.000000  1.000000
2024-02-29  1.000000  1.000000  1.000000
2024-03-31  1.000000  1.000000  1.000000
2024-04-30  1.000000  1.000000  1.000000
...
2026-09-30  1.102500  1.060900  1.102500
2026-10-31  1.102500  1.060900  1.102500
2026-11-30  1.102500  1.060900  1.102500
2026-12-31  1.102500  1.060900  1.102500
2027-01-31  1.157625  1.092727  1.157625
```

```
[38 rows x 3 columns],
'days':          월간일수  연간일수
2023-12-31      31      365
2024-01-31      31      366
2024-02-29      29      366
2024-03-31      31      366
2024-04-30      30      366
...
2026-09-30      30      365
2026-10-31      31      365
2026-11-30      30      365
2026-12-31      31      365
2027-01-31      31      365
```

```
[38 rows x 2 columns]},
'funding': {'자기자본':          자기자본유입      배당금지급
2023-12-31  100000000000      0
2024-01-31      0      0
```

2024-02-29	0	0
2024-03-31	0	0
2024-04-30	0	0
...
2026-09-30	0	0
2026-10-31	0	0
2026-11-30	0	0
2026-12-31	0	669513000
2027-01-31	0	0

[38 rows x 2 columns],					
'차입금':		차입금유입	차입금상환	차입이자	차입금잔액
2023-12-31	100000000000	0	0	100000000000	
2024-01-31	0	0	42349730	100000000000	
2024-02-29	0	0	39617490	100000000000	
2024-03-31	0	500000000	42349730	99500000000	
2024-04-30	0	0	40778690	99500000000	
...	
2026-09-30	0	500000000	39041100	94500000000	
2026-10-31	0	0	40130140	94500000000	
2026-11-30	0	0	38835620	94500000000	
2026-12-31	0	500000000	40130140	94000000000	
2027-01-31	0	0	0	94000000000	

[38 rows x 4 columns],			
'자산매입':		자산매입	매입부수비용
2023-12-31	180000000000	10000000000	
2024-01-31	0	0	
2024-02-29	0	0	
2024-03-31	0	0	
2024-04-30	0	0	
...	
2026-09-30	0	0	
2026-10-31	0	0	
2026-11-30	0	0	

2026-12-31		0	0								
2027-01-31		0	0								
[38 rows x 2 columns]},											
'operating_income': {'TypeA':											
수입											
2023-12-31	0	0	0	0.00	0	0	0				
2024-01-31	1240	0	1240	0.90	1116	130000	145080000				
2024-02-29	1160	0	1160	0.85	986	130000	128180000				
2024-03-31	1240	0	1240	0.80	992	100000	99200000				
2024-04-30	1200	0	1200	0.80	960	100000	96000000				
...				
2026-09-30	1200	0	1200	0.80	960	100000	96000000				
2026-10-31	1240	0	1240	0.80	992	100000	99200000				
2026-11-30	1200	0	1200	0.70	840	100000	84000000				
2026-12-31	1240	0	1240	0.90	1116	130000	145080000				
2027-01-31	0	0	0	0.00	0	0	0				
[38 rows x 7 columns],											
'TypeB':		총객실수	사용불가객실수	판매가능객실수	객실판매비율	판매객실수	판매단가				
							객실수입				
2023-12-31	0	0	0	0.00	0	0	0				
2024-01-31	1240	0	1240	0.90	1116	150000	167400000				
2024-02-29	1160	0	1160	0.85	986	150000	147900000				
2024-03-31	1240	0	1240	0.80	992	120000	119040000				
2024-04-30	1200	0	1200	0.80	960	120000	115200000				
...				
2026-09-30	1200	0	1200	0.80	960	120000	115200000				
2026-10-31	1240	0	1240	0.80	992	120000	119040000				
2026-11-30	1200	0	1200	0.70	840	120000	100800000				
2026-12-31	1240	0	1240	0.90	1116	150000	167400000				
2027-01-31	0	0	0	0.00	0	0	0				
[38 rows x 7 columns],											
'TypeC':		총객실수	사용불가객실수	판매가능객실수	객실판매비율	판매객실수	판매단가				
							객실수입				
2023-12-31	0	0	0	0.00	0	0	0				

2024-01-31	620	0	620	0.85	527	250000	131750000
2024-02-29	580	0	580	0.80	464	250000	116000000
2024-03-31	620	0	620	0.70	434	200000	86800000
2024-04-30	600	0	600	0.70	420	200000	84000000
...
2026-09-30	600	0	600	0.75	450	200000	90000000
2026-10-31	620	0	620	0.75	465	200000	93000000
2026-11-30	600	0	600	0.70	420	200000	84000000
2026-12-31	620	0	620	0.90	558	250000	139500000
2027-01-31	0	0	0	0.00	0	0	0

[38 rows x 7 columns],

'Total':		총객실수	사용불가객실수	판매가능객실수	객실판매비율	판매객실수	판매단가	객실수입
2023-12-31	0	0	0	0.00	0	0		0
2024-01-31	3100	0	3100	0.89	2759	161011	444230000	
2024-02-29	2900	0	2900	0.84	2436	160952	392080000	
2024-03-31	3100	0	3100	0.78	2418	126154	305040000	
2024-04-30	3000	0	3000	0.78	2340	126154	295200000	
...
2026-09-30	3000	0	3000	0.79	2370	127089	301200000	
2026-10-31	3100	0	3100	0.79	2449	127089	311240000	
2026-11-30	3000	0	3000	0.70	2100	128000	268800000	
2026-12-31	3100	0	3100	0.90	2790	162000	451980000	
2027-01-31	0	0	0	0.00	0	0		0

[38 rows x 7 columns]},

'operating_cost': {'객실운영비': {'청소세탁비':				TypeA	TypeB	TypeC	Total
2023-12-31	0	0	0	0			
2024-01-31	11160000	13392000	10540000	35092000			
2024-02-29	9860000	11832000	9280000	30972000			
2024-03-31	9920000	11904000	8680000	30504000			
2024-04-30	9600000	11520000	8400000	29520000			
...			
2026-09-30	10184640	12221568	9548100	31954308			
2026-10-31	10524128	12628953	9866370	33019451			

2026-11-30	8911560	10693872	8911560	28516992
2026-12-31	11839644	14207572	11839644	37886860
2027-01-31	0	0	0	0

[38 rows x 4 columns],						
'수도광열비':		TypeA	TypeB	TypeC	Overhead	Total
2023-12-31	0	0	0	3000000	3000000	
2024-01-31	5580000	6696000	5270000	3000000	20546000	
2024-02-29	4930000	5916000	4640000	3000000	18486000	
2024-03-31	4960000	5952000	4340000	3000000	18252000	
2024-04-30	4800000	5760000	4200000	3000000	17760000	
...	
2026-09-30	5092320	6110784	4774050	3182700	19159854	
2026-10-31	5262064	6314476	4933185	3182700	19692425	
2026-11-30	4455780	5346936	4455780	3182700	17441196	
2026-12-31	5919822	7103786	5919822	3182700	22126130	
2027-01-31	0	0	0	3278181	3278181	

[38 rows x 5 columns],					
'예약수수료':					
		TypeA	TypeB	TypeC	Total
2023-12-31	0	0	0	0	
2024-01-31	4352400	5022000	3952500	13326900	
2024-02-29	3845400	4437000	3480000	11762400	
2024-03-31	2976000	3571200	2604000	9151200	
2024-04-30	2880000	3456000	2520000	8856000	
...	
2026-09-30	2880000	3456000	2700000	9036000	
2026-10-31	2976000	3571200	2790000	9337200	
2026-11-30	2520000	3024000	2520000	8064000	
2026-12-31	4352400	5022000	4185000	13559400	
2027-01-31	0	0	0	0	

[38 rows x 4 columns],		
'TypeA': 2023-12-31		
2024-01-31	21092400	0

```
2024-02-29      18635400
2024-03-31      17856000
2024-04-30      17280000
...
2026-09-30      18156960
2026-10-31      18762192
2026-11-30      15887340
2026-12-31      22111866
2027-01-31              0
Name: TypeA, Length: 38, dtype: int64,
'TypeB': 2023-12-31              0
2024-01-31      25110000
2024-02-29      22185000
2024-03-31      21427200
2024-04-30      20736000
...
2026-09-30      21788352
2026-10-31      22514629
2026-11-30      19064808
2026-12-31      26333358
2027-01-31              0
Name: TypeB, Length: 38, dtype: int64,
'TypeC': 2023-12-31              0
2024-01-31      19762500
2024-02-29      17400000
2024-03-31      15624000
2024-04-30      15120000
...
2026-09-30      17022150
2026-10-31      17589555
2026-11-30      15887340
2026-12-31      21944466
2027-01-31              0
Name: TypeC, Length: 38, dtype: int64,
'Overhead': 2023-12-31      3000000
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```
2024-01-31      3000000
2024-02-29      3000000
2024-03-31      3000000
2024-04-30      3000000
...
2026-09-30      3182700
2026-10-31      3182700
2026-11-30      3182700
2026-12-31      3182700
2027-01-31      3278181
Name: Overhead, Length: 38, dtype: int64,
'Total': 2023-12-31      3000000
2024-01-31      68964900
2024-02-29      61220400
2024-03-31      57907200
2024-04-30      56136000
...
2026-09-30      60150162
2026-10-31      62049076
2026-11-30      54022188
2026-12-31      73572390
2027-01-31      3278181
Name: Total, Length: 38, dtype: int64},
'관리운영비': {'관리운영비':      광고홍보비      기타운영비      Total
2023-12-31  30000000  10000000  40000000
2024-01-31  30000000  10000000  40000000
2024-02-29  30000000  10000000  40000000
2024-03-31  10000000  10000000  20000000
2024-04-30  10000000  10000000  20000000
...
2026-09-30  10609000  10609000  21218000
2026-10-31  10609000  10609000  21218000
2026-11-30  10609000  10609000  21218000
2026-12-31  31827000  10609000  42436000
2027-01-31  32781810  10927270  43709080
```

```
[38 rows x 3 columns],
'Total': 2023-12-31      40000000
2024-01-31      40000000
2024-02-29      40000000
2024-03-31      20000000
2024-04-30      20000000
...
2026-09-30      21218000
2026-10-31      21218000
2026-11-30      21218000
2026-12-31      42436000
2027-01-31      43709080
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Name: Total, Length: 38, dtype: int64},

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'인건비': {'객실운영팀':
2023-12-31 15287671 5095890 20383561
2024-01-31 15245901 5081967 20327868
2024-02-29 14262295 4754098 19016393
2024-03-31 15245901 5081967 20327868
2024-04-30 14754098 4918032 19672130
...
2026-09-30 16310958 5436986 21747944
2026-10-31 16854657 5618219 22472876
2026-11-30 16310958 5436986 21747944
2026-12-31 16854657 5618219 22472876
2027-01-31 17697390 5899130 23596520
```

임시직 Total

```
[38 rows x 3 columns],
'경영지원팀':
2023-12-31 9172602 6794520 15967122
2024-01-31 9147540 6775956 15923496
2024-02-29 8557377 6338797 14896174
2024-03-31 9147540 6775956 15923496
2024-04-30 8852459 6557377 15409836
...
...
...
...
```

임원 Total

2026-09-30	9786575	7249315	17035890
2026-10-31	10112794	7490958	17603752
2026-11-30	9786575	7249315	17035890
2026-12-31	10112794	7490958	17603752
2027-01-31	10618434	7865506	18483940

[38 rows x 3 columns],			
'마케팅팀':		정규직	Total
2023-12-31	6115068	6115068	
2024-01-31	6098360	6098360	
2024-02-29	5704918	5704918	
2024-03-31	6098360	6098360	
2024-04-30	5901639	5901639	
...	
2026-09-30	6524383	6524383	
2026-10-31	6741863	6741863	
2026-11-30	6524383	6524383	
2026-12-31	6741863	6741863	
2027-01-31	7078956	7078956	

[38 rows x 2 columns],			
'시설관리팀':		정규직	임시직 Total
2023-12-31	6115068	2547945	2547945
2024-01-31	6098360	2540983	2540983
2024-02-29	5704918	2377049	2377049
2024-03-31	6098360	2540983	2540983
2024-04-30	5901639	2459016	2459016
...
2026-09-30	6524383	2718493	2718493
2026-10-31	6741863	2809109	2809109
2026-11-30	6524383	2718493	2718493
2026-12-31	6741863	2809109	2809109
2027-01-31	7078956	2949565	2949565

[38 rows x 3 columns],

```
'정규직': 2023-12-31    36690409
2024-01-31    36590161
2024-02-29    34229508
2024-03-31    36590161
2024-04-30    35409835
...
2026-09-30    39146299
2026-10-31    40451177
2026-11-30    39146299
2026-12-31    40451177
2027-01-31    42473736
Name: 정규직, Length: 38, dtype: int64,
'임시직': 2023-12-31    7643835
2024-01-31    7622950
2024-02-29    7131147
2024-03-31    7622950
2024-04-30    7377048
...
2026-09-30    8155479
2026-10-31    8427328
2026-11-30    8155479
2026-12-31    8427328
2027-01-31    8848695
Name: 임시직, Length: 38, dtype: int64,
'임원': 2023-12-31    6794520
2024-01-31    6775956
2024-02-29    6338797
2024-03-31    6775956
2024-04-30    6557377
...
2026-09-30    7249315
2026-10-31    7490958
2026-11-30    7249315
2026-12-31    7490958
2027-01-31    7865506
```

```
Name: 임원, Length: 38, dtype: int64,
'Total': 2023-12-31      45013696
2024-01-31      44890707
2024-02-29      41994534
2024-03-31      44890707
2024-04-30      43442621
...
2026-09-30      48026710
2026-10-31      49627600
2026-11-30      48026710
2026-12-31      49627600
2027-01-31      52108981
Name: Total, Length: 38, dtype: int64}},
'facility_cost': {'통상수선비':
                  TypeA    TypeB    TypeC    Total
2023-12-31      0      0      0      0
2024-01-31  1116000  1339200  1054000  3509200
2024-02-29   986000  1183200   928000  3097200
2024-03-31   992000  1190400   868000  3050400
2024-04-30   960000  1152000   840000  2952000
...
2026-09-30  1018464  1222156   954810  3195430
2026-10-31  1052412  1262895   986637  3301944
2026-11-30   891156  1069387   891156  2851699
2026-12-31  1183964  1420757  1183964  3788685
2027-01-31      0      0      0      0

[38 rows x 4 columns],
'대수선공사비':
                  TypeA    TypeB    TypeC    Total
2023-12-31      0      0      0      0
2024-01-31      0      0      0      0
2024-02-29      0      0      0      0
2024-03-31      0      0      0      0
2024-04-30      0      0      0      0
...
2026-09-30      0      0      0      0
```

```
2026-10-31      0      0      0      0
2026-11-30      0      0      0      0
2026-12-31      0      0      0      0
2027-01-31      0      0      0      0

[38 rows x 4 columns],
'TypeA': 2023-12-31      0
2024-01-31    1116000
2024-02-29    986000
2024-03-31    992000
2024-04-30    960000
...
2026-09-30    1018464
2026-10-31    1052412
2026-11-30     891156
2026-12-31    1183964
2027-01-31      0
Name: TypeA, Length: 38, dtype: int64,
'TypeB': 2023-12-31      0
2024-01-31    1339200
2024-02-29    1183200
2024-03-31    1190400
2024-04-30    1152000
...
2026-09-30    1222156
2026-10-31    1262895
2026-11-30    1069387
2026-12-31    1420757
2027-01-31      0
Name: TypeB, Length: 38, dtype: int64,
'TypeC': 2023-12-31      0
2024-01-31    1054000
2024-02-29     928000
2024-03-31     868000
2024-04-30     840000
```

```

...
2026-09-30      954810
2026-10-31      986637
2026-11-30      891156
2026-12-31     1183964
2027-01-31           0
Name: TypeC, Length: 38, dtype: int64,
'Total': 2023-12-31           0
2024-01-31     3509200
2024-02-29     3097200
2024-03-31     3050400
2024-04-30     2952000
...
2026-09-30     3195430
2026-10-31     3301944
2026-11-30     2851699
2026-12-31     3788685
2027-01-31           0
Name: Total, Length: 38, dtype: int64},
'cashflow':      date categoryA categoryB categoryC      입금금액      출금금액
0  2023-12-31      자금조달      자기자본      자기자본유입  100000000000      0
1  2023-12-31      자금조달      차입금      차입금유입  100000000000      0
2  2023-12-31      자산매입      자산매입      매입대금지출      0  180000000000
3  2023-12-31      자산매입      매입부수비용      부수비용지출      0  10000000000
4  2023-12-31      객실운영비      수도광열비      Overhead      0  3000000
..      ...      ...      ...      ...      ...
957 2027-01-31      인건비      경영지원팀      정규직      0  10618434
958 2027-01-31      인건비      경영지원팀      임원      0  7865506
959 2027-01-31      인건비      마케팅팀      정규직      0  7078956
960 2027-01-31      인건비      시설관리팀      정규직      0  7078956
961 2027-01-31      인건비      시설관리팀      임시직      0  2949565

[962 rows x 6 columns],
'balance':      기초현금      입금금액      출금금액      기말현금
2023-12-31      0  20000000000  19094128764  905871236
```

2024-01-31	905871236	444230000	205812897	1144288339
2024-02-29	1144288339	392080000	191634542	1344733797
2024-03-31	1344733797	305040000	224296397	1425477400
2024-04-30	1425477400	295200000	169210950	1551466450
...
2026-09-30	1747490404	301200000	228155785	1820534619
2026-10-31	1820534619	311240000	183068623	1948705996
2026-11-30	1948705996	268800000	171478600	2046027396
2026-12-31	2046027396	451980000	935809678	1562197718
2027-01-31	1562197718	0	106175198	1456022520

[38 rows x 4 columns],

'pivot_cashflow': <function m08_cashflow_results.pivot_cashflow(cashflow=

date categoryA categoryB cat

egoryC	입금금액	출금금액				
0	2023-12-31	자금조달	자기자본	자기자본유입	10000000000	0
1	2023-12-31	자금조달	차입금	차입금유입	10000000000	0
2	2023-12-31	자산매입	자산매입	매입대금지출	0	18000000000
3	2023-12-31	자산매입	매입부수비용	부수비용지출	0	1000000000
4	2023-12-31	객실운영비	수도광열비	Overhead	0	3000000
..
957	2027-01-31	인건비	경영지원팀	정규직	0	10618434
958	2027-01-31	인건비	경영지원팀	임원	0	7865506
959	2027-01-31	인건비	마케팅팀	정규직	0	7078956
960	2027-01-31	인건비	시설관리팀	정규직	0	7078956
961	2027-01-31	인건비	시설관리팀	임시직	0	2949565

[962 rows x 6 columns]>,

'print_cashflow': <function m08_cashflow_results.print_cashflow(cashflow=

date categoryA categoryB cat

egoryC	입금금액	출금금액				
0	2023-12-31	자금조달	자기자본	자기자본유입	10000000000	0
1	2023-12-31	자금조달	차입금	차입금유입	10000000000	0
2	2023-12-31	자산매입	자산매입	매입대금지출	0	18000000000
3	2023-12-31	자산매입	매입부수비용	부수비용지출	0	1000000000
4	2023-12-31	객실운영비	수도광열비	Overhead	0	3000000
..

957	2027-01-31	인건비	경영지원팀	정규직	0	10618434
958	2027-01-31	인건비	경영지원팀	임원	0	7865506
959	2027-01-31	인건비	마케팅팀	정규직	0	7078956
960	2027-01-31	인건비	시설관리팀	정규직	0	7078956
961	2027-01-31	인건비	시설관리팀	임시직	0	2949565

```
[962 rows x 6 columns], file_name='cashflow_table.xlsx')>}
```

```
In [ ]: cf.dct.keys()
```

```
Out[ ]: dict_keys(['assumption', 'index', 'funding', 'operating_income', 'operating_cost', 'facility_cost', 'cashflow',
'balance', 'pivot_cashflow', 'print_cashflow'])
```

```
In [ ]:
```