[3-3. 데이터베이스로부터 데이터 쓰기]

1. cursor 객체 속성 및 메서드

1-1. cursor 객체 속성

- description: 쿼리 결과의 컬럼에 대한 정보를 포함하는 튜플의 튜플입니다. 각 내부 튜플은 컬럼명, 유형 코드, 표시 길이, 내부 길이, 정밀도, 스케일, null 여부를 포함합니다.
- rowcount : 마지막으로 실행된 execute() 또는 executemany() 호출에 의해 영향을 받은 행의 수입니다. INSERT 또는 UPDATE 등에 의해 영향을 받은 데이터베이스의 행의 수를 의미합니다.
- lastrowid : 마지막으로 INSERT 연산을 통해 생성된 자동 증가 필드(auto-increment field) 의 ID를 반환합니다. INSERT 쿼리가 없거나 테이블에 자동 증가 필드가 없는 경우 None을 반환합니다.

```
In []: from connector import Connector

with Connector() as conn:
    query = "SELECT * FROM cashflow_tbl WHERE deposit > 0;"
    conn.cursor.execute(query)
    print(f"description : {conn.cursor.description}")
    print(f"rowcount : {conn.cursor.rowcount}")
    print(f"lastrowid : {conn.cursor.lastrowid}")
    result = conn.cursor.fetchall()
```

description : [('id', 8, None, None, None, None, 0, 49699, 63), ('accoun
t_id', 254, None, None, None, None, 0, 4097, 255), ('dw_date', 10, None,
None, None, None, 0, 4225, 63), ('category', 254, None, None, None, None
e, 0, 4097, 255), ('client', 254, None, None, None, None, 0, 4097, 255),
('deposit', 8, None, None, None, None, 0, 32801, 63), ('withdrawal', 8,
None, None, None, None, 0, 32801, 63), ('description', 253, None, None,
None, None, 1, 0, 255), ('created_at', 12, None, None, None, None, None, 0, 12
9, 63), ('deleted_at', 12, None, None, None, 1, 128, 63)]
rowcount : 0

rowcount : 0 lastrowid : 0

1-2. cursor 객체 메서드

- execute(query, params=None) : SQL 쿼리를 실행합니다. params는 쿼리에 바인딩할 파라미터를 포함할 수 있으며, 튜플, 리스트 또는 딕셔너리일 수 있습니다.
- executemany(query, seq_of_params) : 동일한 쿼리를 파라미터의 시퀀스에 대해 반복적으로 실행합니다. 대량 데이터 삽입 작업에 효과적입니다.
- fetchone(): 쿼리 결과로부터 다음 행을 반환합니다. 결과가 없으면 None을 반환합니다.
- fetchall(): 쿼리 결과의 모든 행을 한번에 가져옵니다. 모든 결과를 메모리에 로드하므로, 큰 결과 집합에서는 주의가 필요합니다.
- fetchmany(size=None) : 쿼리 결과에서 지정된 수(size)의 행을 반환합니다. size가 지정되지 않으면 1의 값이 사용됩니다.

1-3. cursor 객체의 fetchone() 메서드, fetchall() 메서드 사용하기

1-3-1. fetchall() 메서드

```
In []: with Connector() as conn:
    query = "SELECT * FROM accounts_info;"
    conn.cursor.execute(query)
    result = conn.cursor.fetchall()
    print(result)
```

[{'id': 1, 'account_id': 'hana1234', 'bank_name': '하나은행', 'account_numb er': '12345-01-1234', 'account_holder': 'FC호텔', 'account_type': '보통예 금', 'branch_name': '여의도점', 'account_alias': '매출계좌', 'description': ' 매출대금 입금계좌', 'opening_date': datetime.date(2024, 1, 2), 'closing_dat e': None, 'created_at': datetime.datetime(2024, 4, 10, 23, 33, 35), 'del eted_at': None}, {'id': 2, 'account_id': 'hana4321', 'bank_name': '하나은 행', 'account_number': '12345-01-4321', 'account_holder': 'FC호텔', 'accou nt_type': '보통예금', 'branch_name': '여의도점', 'account_alias': '운영계좌', ' description': '운영비용 지출 계좌', 'opening_date': datetime.date(2024, 1, 2), 'closing date': None, 'created at': datetime.datetime(2024, 4, 10, 2 3, 33, 35), 'deleted_at': None}, {'id': 3, 'account_id': 'shhn4567', 'ba nk_name': '신한은행', 'account_number': '54321-21-4567', 'account_holder': 'FC호텔', 'account_type': '정기예금', 'branch_name': '여의도점', 'account_alia s': '정기예금', 'description': '10억원 1년 정기예금', 'opening_date': datetime. date(2024, 1, 2), 'closing_date': None, 'created_at': datetime.datetime(2024, 4, 10, 23, 33, 35), 'deleted_at': None}]

1-3-2. fetchone() 메서드

```
In []:
    with Connector() as conn:
        query = "SELECT * FROM accounts_info;"
        conn.cursor.execute(query)

    result = []
    row = conn.cursor.fetchone()
    while row is not None:
        result.append(row)
        row = conn.cursor.fetchone()
    print(result)
```

[{'id': 1, 'account_id': 'hana1234', 'bank_name': '하나은행', 'account_numb er': '12345-01-1234', 'account_holder': 'FC호텔', 'account_type': '보통예 금', 'branch_name': '여의도점', 'account_alias': '매출계좌', 'description': ' 매출대금 입금계좌', 'opening_date': datetime.date(2024, 1, 2), 'closing_dat e': None, 'created at': datetime.datetime(2024, 4, 10, 23, 33, 35), 'del eted at': None}, {'id': 2, 'account id': 'hana4321', 'bank name': '하나은 행', 'account_number': '12345-01-4321', 'account_holder': 'FC호텔', 'accou nt_type': '보통예금', 'branch_name': '여의도점', 'account_alias': '운영계좌', ' description': '운영비용 지출 계좌', 'opening_date': datetime.date(2024, 1, 2), 'closing_date': None, 'created_at': datetime.datetime(2024, 4, 10, 2 3, 33, 35), 'deleted_at': None}, {'id': 3, 'account_id': 'shhn4567', 'ba nk_name': '신한은행', 'account_number': '54321-21-4567', 'account_holder': 'FC호텔', 'account type': '정기예금', 'branch name': '여의도점', 'account alia s': '정기예금', 'description': '10억원 1년 정기예금', 'opening_date': datetime. date(2024, 1, 2), 'closing_date': None, 'created_at': datetime.datetime(2024, 4, 10, 23, 33, 35), 'deleted_at': None}]

2. execute() 메서드를 이용하여 INSERT 실행하기

2-1. INSERT 쿼리문 전체를 Execute 하기

```
In []: with Connector() as conn:
    query = "SELECT * FROM cashflow_tbl WHERE dw_date='2024-02-02';"
    conn.cursor.execute(query)
    result = conn.cursor.fetchall()
    print(result)
```

[{'id': 113, 'account_id': 'shhn4567', 'dw_date': datetime.date(2024, 2, 2), 'category': '이자수입', 'client': '신한은행', 'deposit': 4246575, 'withdr awal': 0, 'description': '정기예금 이자', 'created_at': datetime.datetime(2024, 4, 13, 18, 40, 37), 'deleted_at': None}]

2-2. 플레이스 홀더를 사용하여 쿼리문 Execute 하기

- 쿼리문에 '%s'(플레이스 홀더)를 사용해서 SQL 쿼리문에 변수를 안전하게 바인딩할 수 있습니다.
- 쿼리 작성: 쿼리문에서 변수가 들어갈 자리에 '%s'를 사용합니다. '%s'는 쿼리에 직접 값을 삽입하지 않고, 대신 변수를 받는 플레이스 홀더 역할을 합니다.
- 데이터 바인딩 : 쿼리 실행 시 '%s' 위치에 들어갈 변수를 튜플 또는 리스트로 제공합니다. 이 데이터는 쿼리를 실행할 때 적절히 삽입되어 실행됩니다.
- 쿼리 실행 : execute() 또는 executemany() 메서드의 첫번째 인자로 쿼리문이, 두번째 인자로 데이터가 들어갑니다.

```
In []:
with Connector() as conn:
query = """
    INSERT INTO cashflow_tbl (
        account_id, dw_date, category, client,
        deposit, withdrawal, description
)
    VALUES (%s, %s, %s, %s, %s, %s, %s);
"""
values = ['hana1234', '2024-02-01', '객실수입', '호텔스닷컴',
        33000000, 0, '객실 매출']
conn.cursor.execute(query, values) # SQL 쿼리 실행
conn.connection.commit() # 트랜잭션 내에서 실행된 모든 변경사항을 데이터베이스에 획
```

```
In []:
    with Connector() as conn:
        query = "SELECT * FROM cashflow_tbl WHERE dw_date='2024-02-01';"
        conn.cursor.execute(query)
        result = conn.cursor.fetchall()
        print(result)
```

[{'id': 114, 'account_id': 'hana1234', 'dw_date': datetime.date(2024, 2, 1), 'category': '객실수입', 'client': '호텔스닷컴', 'deposit': 33000000, 'with drawal': 0, 'description': '객실 매출', 'created_at': datetime.datetime(2024, 4, 13, 18, 47, 25), 'deleted_at': None}]

2-3. executemany() 메서드 사용하기

```
In [ ]:
        values = [
            ('hana1234',
                         '2024-02-02'
                                        '객실수입'
                                                 '호텔스넷', 25000000, 0,
                                                 '호텔스닷컴', 30000000, 0, '객실 매출
            ('hana1234',
                         '2024-02-03',
                                        '객실수입'
            ('hana1234'
                         '2024-02-04'
                                        '객실수입'
                                                 '호텔스넷', 25000000, 0, '객실 매출')
                                                                         '객실 매출
            ('hana1234'
                                                 '호텔스닷컴', 31000000, 0,
                         '2024-02-05'
                                        '객실수입
                                                                        '객실 매출')
            ('hana1234'
                         '2024-02-06'
                                        '객실수입'
                                                 '호텔스넷', 25000000, 0,
                                                 '호텔스닷컴', 31000000, 0, '객실 매출
            ('hana1234'
                         '2024-02-07'
                                        '객실수입
                                                 '호텔스넷', 27000000, 0, '객실 매출')
            ('hana1234'
                         '2024-02-08'
                                        '객실수입'
                                                 '호텔스닷컴', 25000000, 0, '객실 매출
            ('hana1234'
                         '2024-02-09'
                                        '객실수입'
            ('hana1234'
                                                 '호텔스넷', 32000000, 0, '객실 매출')
                         '2024-02-10'
                                        '객실수입'
            ('hana1234'
                                        '객실수입'
                                                 '호텔스닷컴', 35000000, 0, '객실 매출
                         '2024-02-11'
            ('hana1234'
                                                 '호텔스넷', 33000000, 0, '객실 매출')
                         '2024-02-12'
                                        '객실수입'
                                                 '호텔스닷컴', 24000000, 0, '객실 매출
            ('hana1234'
                         '2024-02-13'
                                        '객실수입'
                                                 '호텔스넷', 22000000, 0, '객실 매출')
            ('hana1234'
                         '2024-02-14'
                                        '객실수입'
            ('hana1234',
                         '2024-02-15',
                                        '객실수입'
                                                 '호텔스닷컴', 25000000, 0, '객실 매출
                                                 '호텔스넷', 28000000, 0, '객실 매출')
            ('hana1234'
                         '2024-02-16'
                                        '객실수입'
            ('hana1234'
                                        '객실수입'
                                                 '호텔스닷컴', 25000000, 0, '객실 매출
                         '2024-02-17'
                                                                        '객실 매출')
                                                 '호텔스넷', 27000000, 0,
            ('hana1234'
                         '2024-02-18'
                                        '객실수입'
                                                 '호텔스닷컴', 29000000, 0, '객실 매출
                                        '객실수입'
            ('hana1234'
                         '2024-02-19'
                                                                        '객실 매출')
            ('hana1234'
                         '2024-02-20'
                                        '객실수입'
                                                 '호텔스넷', 28000000, 0,
                                                 '호텔스닷컴', 31000000, 0, '객실 매출
            ('hana1234'
                         '2024-02-21'
                                        '객실수입'
                                                 '호텔스넷', 25000000, 0, '객실 매출')
                                        '객실수입',
            ('hana1234'
                         '2024-02-22'
            ('hana1234'
                                        '객실수입'
                                                 '호텔스닷컴', 30000000, 0, '객실 매출
                         '2024-02-23'
                                                 '호텔스넷', 31000000, 0, '객실 매출')
            ('hana1234'
                                        '객실수입',
                         '2024-02-24'
            ('hana1234'
                                        '객실수입'
                                                 '호텔스닷컴', 25000000, 0, '객실 매출
                         '2024-02-25'
                                                 '호텔스넷', 30000000, 0, '객실 매출')
            ('hana1234'
                         '2024-02-26'
            ('hana1234'
                         '2024-02-27'
                                                 '호텔스닷컴', 32000000, 0, '객실 매출
                                                                        '객실 매출')
            ('hana1234'
                         '2024-02-28'
                                                 '호텔스넷', 27000000, 0,
            ('hana1234'
                         '2024-02-29'
                                        '객실수입'
                                                 '호텔스닷컴', 32000000, 0, '객실 매출
                                        '급여', '종업원급여', 0, 170000000,
                                                                        '종업원급여')
            ('hana4321'
                         '2024-02-21'
                                        '판매수수료',
                                                   '호텔스넷', 0, 3750000,
                                                                         '객실판매수식
            ('hana4321'
                         '2024-02-07'
            ('hana4321'
                                                   '호텔스넷', 0, 4600000,
                                                                         '객실판매수수
                         '2024-02-13'
                                        '판매수수료'
                                                   '호텔스넷', 0, 3850000,
            ('hana4321'
                         '2024-02-19'
                                        '판매수수료'
                                                                         '객실판매수ሩ
            ('hana4321'
                                        '판매수수료'
                                                   '호텔스넷', 0, 4200000,
                                                                         '객실판매수ሩ
                         '2024-02-25'
                                                   '호텔스넷', 0, 2850000,
            ('hana4321'
                         '2024-02-29'
                                        '판매수수료'
                                                                         '객실판매수ሩ
                                                   '호텔스닷컴', 0, 4700000,
            ('hana4321'
                         '2024-02-07'
                                        '판매수수료'
            ('hana4321'
                         '2024-02-13'
                                        '판매수수료'
                                                   '호텔스닷컴', 0, 4550000,
            ('hana4321'
                                                   '호텔스닷컴', 0, 3700000,
                         '2024-02-19'
                                        '판매수수료',
                                                                          '객실판매ሩ
                                                                          '객실판매ሩ
            ('hana4321'
                                        '판매수수료'
                                                   '호텔스닷컴', 0, 4500000,
                         '2024-02-25'
                                                   '호텔스닷컴',
                                        '판매수수료'
                                                             0, 4450000,
            ('hana4321'
                         '2024-02-29'
                                                                          '객실판매ሩ
            ('hana4321'.
                         '2024-02-03'
                                                   'ABC용품사', 0, 20000000,
                                        '고객용품비',
                                                   'ABC용품사', 0, 15000000,
            ('hana4321'
                         '2024-02-10'
                                        '고객용품비'
            ('hana4321'
                         '2024-02-17'
                                        '고객용품비',
                                                   'ABC용품사', 0, 20000000,
                                                   'ABC용품사', 0, 15000000,
            ('hana4321'
                         '2024-02-24'
                                        '고객용품비'
            ('hana4321'
                         '2024-02-29'
                                                   'ABC용품사', 0, 15000000,
                                        '고객용품비',
                                                   '수도광열비', 0, 41000000,
            ('hana4321'
                                        '수도광열비'
                         '2024-02-19'
                                                   '노무용역사',
            ('hana4321'
                                                             0, 170000000,
                         '2024-02-24'
                                        '노무용역비'
            ('hana4321'.
                         '2024-02-10'
                                                   '세금과공과', 0, 85000000,
            ('hana4321'
                         '2024-02-03'
                                                    'A사', 0, 15000000,
                                                    'B사',
                                                          0, 20000000,
            ('hana4321'.
```

```
('hana4321', '2024-02-17', '기타영업비용', 'A사', 0, 18000000, '영업비용C')
            ('hana4321', '2024-02-24', '기타영업비용', 'C사', 0, 15000000, '영업비용D')
            ('hana4321', '2024-02-29', '기타영업비용', 'C사', 0, 20000000, '영업비용E')
In [ ]: with Connector() as conn:
            query = """
                INSERT INTO cashflow_tbl (
                    account_id, dw_date, category, client,
                    deposit, withdrawal, description
                VALUES (%s, %s, %s, %s, %s, %s);
            conn.cursor.executemany(query, values)
            conn.connection.commit()
In [ ]: with Connector() as conn:
            query = """
                SELECT * FROM cashflow tbl
                WHERE dw date BETWEEN '2024-02-01' AND '2024-02-29';
            conn.cursor.execute(query)
            result = conn.cursor.fetchall()
```

print(result)

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In []:	len(result)
Out[]:	54
In []:	