

- description :
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- lastupdate : 2020-06-26

```
# Section12-2
#                               (SQLite)
#

import sqlite3

# DB                               (/database.db/database.db)
# conn = sqlite3.connect('                               /database.db/database.db')
conn = sqlite3.connect('D:/python_bnasic/resource/database.db') # DB

#
c = conn.cursor()

#                               ( )
c.execute("SELECT * FROM users")

#                               가
# 1
print('One -> \n', c.fetchone())

#
print('Three -> \n', c.fetchmany(size=3))

#
print('All -> \n', c.fetchall())

print()

# 1,2,3
# 1
rows = c.fetchall()
for row in rows:
    print('retrievel >', row) #

# 2 -->
```

```
for row in c.fetchall():
    print('retrieve2 >', row)    #

#      3
for row in c.execute("SELECT * FROM users ORDER BY id desc"):
    print('retrieve3 > ', row)

print()

# WHERE Retrieve1
param1 = (1,)
c.execute('SELECT * FROM users WHERE id=?', param1)
print('param1', c.fetchone())
print('param1', c.fetchall())

# WHERE Retrieve2
param2 = 1
c.execute("SELECT * FROM users WHERE id='%s'" % param2)    # %s %d %f
print('param2', c.fetchone())
print('param2', c.fetchall())

# WHERE Retrieve3
c.execute("SELECT * FROM users WHERE id= :Id", {"Id": 1})
print('param3', c.fetchone())
print('param3', c.fetchall())

# WHERE Retrieve4
param4 = (1, 4)
c.execute('SELECT * FROM users WHERE id IN(?,?)', param4)
print('param4', c.fetchall())

# WHERE Retrieve5
c.execute("SELECT * FROM users WHERE id In('%d','%d')" % (1, 4))
print('param5', c.fetchall())

# WHERE Retrieve6
c.execute("SELECT * FROM users WHERE id= :id1 OR id= :id2", {"id1": 1,
"id2": 4})
print('param6', c.fetchall())

with conn:
    # Dump      (
    # with open('          /dump.sql', 'w') as f:
    with open('D:/python_bnasic/resource/dump.sql', 'w') as f:
        for line in conn.iterdump():
            f.write('%s\n' % line)
        print('Dump Print Complete.')
```

```
One ->
(1, 'Kim', 'Kim@naver.com', '010-0000-0000', 'Kim.com', '2020-06-26
22:47:31')
Three ->
[(2, 'Park', 'Park@naver.com', '010-1111-1111', 'Park.com', '2020-06-26
22:47:31'), (3, 'Lee', 'Lee@naver.com', '010-2222-2222', 'Lee.com',
'2020-06-26 22:47:31'), (4, 'Cho', 'Cho@naver.com', '010-3333-3333',
'Cho.com', '2020-06-26 22:47:31')]
All ->
[(5, 'Yoo', 'Yoo@naver.com', '010-4444-4444', 'Yoo.com', '2020-06-26
22:47:31')]

retrieve3 > (5, 'Yoo', 'Yoo@naver.com', '010-4444-4444', 'Yoo.com',
'2020-06-26 22:47:31')
retrieve3 > (4, 'Cho', 'Cho@naver.com', '010-3333-3333', 'Cho.com',
'2020-06-26 22:47:31')
retrieve3 > (3, 'Lee', 'Lee@naver.com', '010-2222-2222', 'Lee.com',
'2020-06-26 22:47:31')
retrieve3 > (2, 'Park', 'Park@naver.com', '010-1111-1111', 'Park.com',
'2020-06-26 22:47:31')
retrieve3 > (1, 'Kim', 'Kim@naver.com', '010-0000-0000', 'Kim.com',
'2020-06-26 22:47:31')

param1 (1, 'Kim', 'Kim@naver.com', '010-0000-0000', 'Kim.com', '2020-06-26
22:47:31')
param1 []
param2 (1, 'Kim', 'Kim@naver.com', '010-0000-0000', 'Kim.com', '2020-06-26
22:47:31')
param2 []
param3 (1, 'Kim', 'Kim@naver.com', '010-0000-0000', 'Kim.com', '2020-06-26
22:47:31')
param3 []
param4 [(1, 'Kim', 'Kim@naver.com', '010-0000-0000', 'Kim.com', '2020-06-26
22:47:31'), (4, 'Cho', 'Cho@naver.com', '010-3333-3333', 'Cho.com',
'2020-06-26 22:47:31')]
param5 [(1, 'Kim', 'Kim@naver.com', '010-0000-0000', 'Kim.com', '2020-06-26
22:47:31'), (4, 'Cho', 'Cho@naver.com', '010-3333-3333', 'Cho.com',
'2020-06-26 22:47:31')]
param6 [(1, 'Kim', 'Kim@naver.com', '010-0000-0000', 'Kim.com', '2020-06-26
22:47:31'), (4, 'Cho', 'Cho@naver.com', '010-3333-3333', 'Cho.com',
'2020-06-26 22:47:31')]
Dump Print Complete.
```

Tip

, [python](#),

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