

- description :
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DB TOOL 가 DB TOOL
 database.db DB TOOL

SQLiteDatabase

```
# Section12-1
#                    (SQLite)
#

import datetime
import sqlite3

#
now = datetime.datetime.now()
print('now', now)

nowDatetime = now.strftime('%Y-%m-%d %H:%M:%S')
print('nowDatetime', nowDatetime)

# sqlite3
print('sqlite3.version : ', sqlite3.version)
print('sqlite3.sqlite_version', sqlite3.sqlite_version)

# DB       & Autocommit
#       DB
# conn = sqlite3.connect('                    /database.db/database.db')
conn = sqlite3.connect('D:/python_bnasic/resource/database.db',
isolation_level=None)

# DB       (       )
# conn = sqlite3.connect(":memory:")
```

```
# Cursor
c = conn.cursor()
print('Cursor Type : ', type(c))

#           (Datatype : TEXT NUMERIC INTEGER REAL BLOB)
c.execute(
    "CREATE TABLE IF NOT EXISTS users( \
        id INTEGER PRIMARY KEY, username text, email text, phone text, \
website text, regdate text \
    )" # AUTOINCREMENT

# \ -->
# IF NOT EXISTS -->

#
c.execute("INSERT INTO users VALUES (1 , 'Kim', 'Kim@naver.com',
'010-0000-0000', 'Kim.com', ?)", (nowDatetime,))
c.execute("INSERT INTO users(id, username, email, phone, website, regdate)
VALUES (?, ?, ?, ?, ?, ?)",
    (2, 'Park', 'Park@naver.com', '010-1111-1111', 'Park.com',
nowDatetime))

# Many ( , )
userList = (
    (3, 'Lee', 'Lee@naver.com', '010-2222-2222', 'Lee.com', nowDatetime),
    (4, 'Cho', 'Cho@naver.com', '010-3333-3333', 'Cho.com', nowDatetime),
    (5, 'Yoo', 'Yoo@naver.com', '010-4444-4444', 'Yoo.com', nowDatetime)
)
c.executemany("INSERT INTO users(id, username, email, phone, website,
regdate) VALUES (?, ?, ?, ?, ?, ?)", userList)

#
# print("users db deleted : ", conn.execute("delete from users").rowcount,
"rows")

# .rowcount -->

# : isolation_level=None (Auto Commit)
conn.commit()

#
# conn.rollback()

#
conn.close()
```

Tip

select 가 .

- (SQLite) -
python

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