



Become QA Auto



SELECT

Бутенко Сергій



План лекції



Загальна інформація

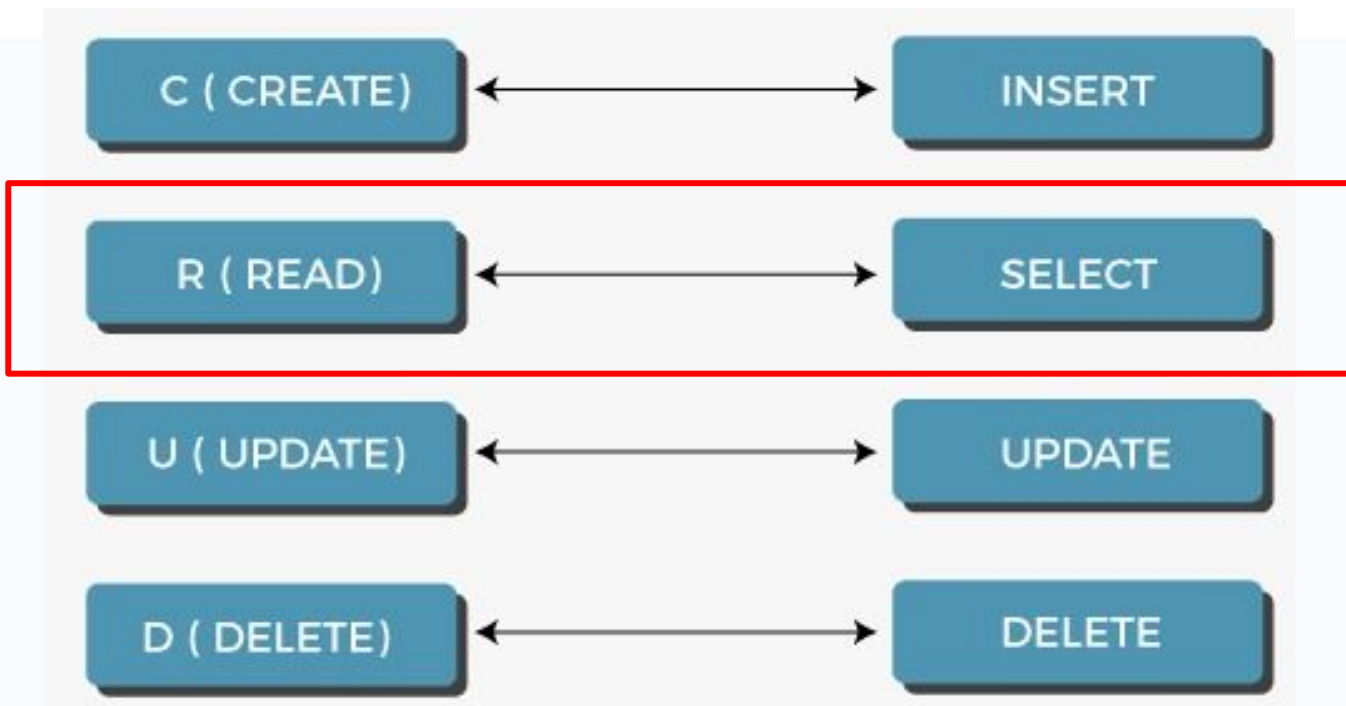


Практика



Синтаксис SELECT

◎ Загальна інформація. SELECT





SELECT



Customers

id	name	address	city	postalCode	country
1	Sergii	Maydan Nezalezhnosti 1	Kyiv	3127	Ukraine
2	Stepan	Stepana Bandery str, 2	Kyiv	2055	Ukraine

Products

id	name	description	quantity
1	солодка вода	з цукром	10
2	солодка вода	з цукрозамінником	10
3	молоко	натуральне незбиране	10



SELECT. Синтаксис



```
SELECT column1, column2, columnN FROM table_name
```



SELECT. Синтаксис



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⦿ SELECT. Синтаксис



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◎ SELECT. Синтаксис



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SELECT name, address, city FROM customers;
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◎ SELECT. Синтаксис



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Практика



EXPLORER

...

> OPEN EDITORS

▼ BECOME QA AUTO

> __pycache__

> .pytest_cache

▼ config

config.py

▼ modules

> __pycache__

> api

▼ common

> __pycache__

__init__.py

database.py 1, U

> ui

__init__.py U

database.py X

modules > common > database.py > ...

```
1 import sqlite3
2
3
4 class Database():
5
6     def __init__(self):
7         self.connection = sqlite3.connect(r'/home/sbutenko/repos/LnD/Become QA Auto' + r'/become_qa_auto.db')
8         self.cursor = self.connection.cursor()
9
10    def test_connection(self):
11        sqlite_select_Query = "SELECT sqlite_version();"
12        self.cursor.execute(sqlite_select_Query)
13        record = self.cursor.fetchall()
14        print(f"Connected successfully. SQLite Database Version is: {record}")
15
```



Практика



```
1  import sqlite3
2
3
4  class Database():
5
6      def __init__(self):
7          self.connection = sqlite3.connect(r'/home/sbutenko/repos/LnD/Become QA Auto' + r'/become_qa_auto.')
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10     def test_connection(self):
11         sqlite_select_Query = "SELECT sqlite_version();"
12         self.cursor.execute(sqlite_select_Query)
13         record = self.cursor.fetchall()
14         print(f"Connected successfully. SQLite Database Version is: {record}")
15
16     def get_all_users(self):
17         query = "SELECT name, address, city FROM customers"
18         self.cursor.execute(query)
19         record = self.cursor.fetchall()
20         return record
21
```




Практика



EXPLORER

...

> OPEN EDITORS

▼ BECOME QA AUTO

> __pycache__

> .pytest_cache

> config

> modules

▼ tests

> __pycache__

> api

▼ database

> __pycache__

test_database.py 1, U

> ui

become_qa_auto.db U

conftest.py U

database.py

test_database.py X

tests > database > test_database.py > test_check_all_users

```
1 import pytest
2 from modules.common.database import Database
3
4
5 @pytest.mark.database
6 def test_database_connection():
7     db = Database()
8     db.test_connection()
9
10
11 @pytest.mark.database
12 def test_check_all_users():
13     db = Database()
14     users = db.get_all_users()
15
16     print(users)
```

⦿ Практика



```
→ Become QA Auto git:(master) X pytest -m database -s
===== test session starts =====
platform linux -- Python 3.8.10, pytest-7.1.2, pluggy-0.13.1
rootdir: /home/sbutenko/repos/LnD/Become QA Auto, configfile: pytest.ini
plugins: Faker-4.1.1, rerunfailures-9.1.1, forked-1.3.0, anyio-3.4.0, xdist-1.32.0, allure-pytest-
2.8.16, html-2.1.1, metadata-1.10.0, ordering-0.6, instafail-0.4.2
collected 15 items / 13 deselected / 2 selected

tests/database/test_database.py Connected successfully. SQLite Database Version is: [('3.31.1',)]
[('Sergii', 'Maydan Nezalezhnosti 1', 'Kyiv'), ('Stepan', 'Stepana Bandery str, 2', 'Kyiv')]

===== 2 passed, 13 deselected in 0.04s =====
```



Підсумки



- ✓ Вивчили, що запит **SELECT** використовується для отримання даних з бази даних
- ✓ Ознайомилися зі структурою запиту **SELECT**
- ✓ Написали тест для перевірки правильності роботи запиту **SELECT**