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SQLAlchemy core find if row exists   self.Python

0

submitted 1 year ago * by **phunce**

I would have thought there would be obvious answer to this everywhere but extensive Googling hasn't turned up an obvious answer.

What is the most effective way to find out if a row with a given primary key exists?

I'm using SQLAlchemy core with sqlite on Python 3.

Here's what I am doing, is there a better way?

```
from sqlalchemy.ext.automap import automap_base
from sqlalchemy import create_engine, exists
from sqlalchemy.schema import Table
from sqlalchemy.schema import MetaData
from sqlalchemy.sql import select

Base = automap_base()
engine = create_engine("sqlite:////home/ubuntu/crowdwave/src/crowdwave/a
rchives.db")
conn = engine.connect()
# reflect the tables
Base.prepare(engine, reflect=True)
meta = MetaData()
messages = Table('messages', meta, autoload=True, autoload_with=engine)
s = select([messages.c.message_id_hash]).where(messages.c.message_id_has
h=='GQWMEJ3DJYPFDH2NJEDOIDZ3W2YBUFYP')
result = conn.execute(s)
print(result.first())
```

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▼   **[–] jgardner** 1 point 1 year ago

I think you should review the tutorial:

http://docs.sqlalchemy.org/en/rel_0_9/core/tutorial.html#selecting

All the methods for the object returned from calling select() are here:

http://docs.sqlalchemy.org/en/rel_0_9/core/selectable.html#sqlalchemy.sql.expression.Select

Typically, you configure your ORM. The Query object has more functions that make it more useful, and the ORM objects make many tasks trivial. IE, you would want your above code to be:

```
session.query(Message) \
    .get('GQWMEJ3DJYPFDH2NJEDOIDZ3W2YBUFYP')
```

(Assuming message_id_hash is the PK) or

```
session.query(Message) \
    .filter(Message.message_id_hash=='GQWMEJ3DJYPFDH2NJEDOIDZ3W2YBUFYP') \
    .one()
```

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▲
▼   **[–] phunce** [**S**] 2 points 1 year ago

Thanks for your reply but I'm using the core rather than the ORM.

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Python

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If you are about to ask a question, please consider r/learnpython. **Homework-style questions will be removed, and you'll be encouraged to post there instead.**

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Posting code to this subreddit:

Add 4 extra spaces before each line of code

```
def fibonacci():
    a, b = 0, 1
    while True:
        yield a
        a, b = b, a + b
```

Online Books and Resources

- Think Python
- Dive into Python 3
- Automate the Boring Stuff with Python
- Invent Your Own Computer Games with Python
- Non-programmers Tutorial for Python 3
- Beginner's Guide Reference
- Five life jackets to throw to the new coder (things to do after getting a handle on python)
- Full Stack Python
- Test-Driven Development with Python
- Program Arcade Games

Online exercices

- codingbat
- pyschools
- codecademy
- Problem Solving with Algorithms and Data Structures
- How To Think Like a Computer Scientist
- Code School: Try Python

programming challenges

- The Python Challenge (solve each level through programming)
- CheckiO (game world)
- Project Euler (math heavy)
- CodeEval (unlock job offers)
- /r/dailyprogrammer

Asking Questions

- Should I use Python 2 or Python 3?
- r/learnpython
- r/learnprogramming

Try Python in your browser

- try.jupyter.org (Evolved from the language-agnostic parts of IPython, Python 3)
- learnpython.org
- Skulpt (uses WebGL)
- trypython.org (uses Silverlight)
- ideone (online compiler and debugger)
- PythonAnywhere (basic accounts are free)
- Brython (Python 3 implementation for client-side web programming)
- Wakari.io (Web-based Python Data Analysis)

Docs

- Python 2 docs
- Python 3 docs
- Guide to Python Packaging
- The Hitchhiker's Guide to Python

Libraries

- Twisted, 0MQ (networking)
- Django, Pyramid, Flask, ... (Web Frameworks)
- Pygame (Game development)
- NumPy & SciPy (Scientific computing)

Related subreddits

- /r/pythoncoding (strict moderation policy for 'programming only' articles)
- /r/flask (web microframework)
- /r/django (web framework for perfectionists with deadlines)
- /r/pygame (a set of modules designed for writing games)
- /r/IPython (interactive environment)
- /r/inventwithpython (for the books written by /u/AlSweigart)
- /r/pystats (python in statistical analysis and machine learning)
- /r/coolgithubprojects (filtered on Python projects)
- /r/pyladies (women developers who love python)
- /r/git and /r/mercurial - don't forget to put your code in a repo!

Python jobs

- Pythonjobs.Github.io
- Python.org job board

Newsletters

- Pycoder's Weekly
- Python Weekly
- ImportPython
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