

COMP3311 Week 8

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Adapted from Kyu-Sang Kim



Announcements

- Quiz 5 due Friday 3 November @11:59pm AEST
- Assignment 2 will be released soon, still in progress
 - Due date will be adjusted accordingly

Learning Objectives

01



Psycopg2

02



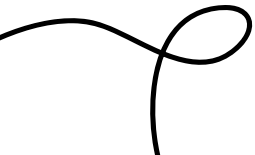
Tutorial Questions!

01

Psycopg2

01 → Psycopg2

- A Python module that gives us a way to **connect Python to a SQLite or PostgreSQL database**
- Allows us to:
 - write a query as a string in Python
 - send to database
 - retrieve results as a list of tuples (among others)
 - handle and manipulate those results in Python
- How familiar are we all with Python?



01



Psycopg2

- Steps to using Psycopg2:
 1. Connect to a database. Return a **connection** object used to access the DB.
 - `conn = psycopg2.connect(DB_connection_string)`
 2. Create a **cursor** conn to perform queries/updates on DB.
 - `cur = conn.cursor()`
 3. Make necessary operations on the cursor e.g.
 - `cur.execute(SQL_statement, Values)`
 - `list = cur.fetchall()`
 - `tup = cur.fetchone()`
 - `tup = cur.fetchmany(nTuples)`
 4. Commit changes made to DB
 - `conn.commit()`
 5. Close the connection to the database
 - `conn.close()`

02

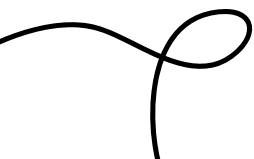
Tutorial Questions

02



Tutorial Questions

- Not many questions this week, so we should be able to get through most of them! :D



1. `~` : Case-sensitive, compares two statements, returns true if the first string is contained in the second
2. `~*` : Case-insensitive, compares two statements, returns true if the first string is contained in the second
3. `!~` : Case-sensitive, compares two statements, returns false if the first string is contained in the second
4. `!~*` : Case-insensitive, compares two statements, return false if the first string is contained in the second

