ETL(Extract, Transform, Load) Project Links

ETL project example. This has some helpful info: <https://github.com/jamielynethorpe/ETL-project>

1. Using psycopg2: <https://www.youtube.com/watch?v=2PDkXviEMD0>

<https://www.psycopg.org/docs/usage.html>

Psycopg2 – a PostgreSQL database adapter for Python programming language

* Basically, writing python script to talk with PostGres database
* After importing psycopg2 in Python or Visual Code, establish connection to the database

#establish connection:

con = psycopg2.connect(host = “where the database is located”, database = “name of database”, user = “postgres”, password = “postgres”

After establishing the connection, the session will start. Now you can start issuing queires

1. Data model with at least two tables in lucid chart. Model with proper cardinality and degrees labeled/explained: <https://www.ibm.com/cloud/learn/data-modeling>

ERD (entity relationship diagram) in lucid chart. <https://www.youtube.com/watch?v=QpdhBUYk7Kk>

* Entity: person, place or thing to be tracked in the database
  + Each entity will have attributes, which are various properties or traits
  + The entities in a database will be the rows and attributes are the columns
* Relationships between the entities (how they interact with each other): draw a line in between them

1. Create a DDL for each table and execute it programmatically. <https://www.geeksforgeeks.org/sql-ddl-dql-dml-dcl-tcl-commands/>

* DDL (Data definition language): consists of SQL commands that can be used to define the database schema. It’s used to create and modify the structure of database objects in the database
* DDL is a set of SQL commands used to create, modify, and delete database structures but not data
* List of commands are: CREATE(creates a table), DROP, ALTER(alters table), TRUNCATE, COMMENT, RENAME

<https://study.com/academy/lesson/data-definition-language-ddl-commands.html> - perfect example for Artist DB