

## Practice Case Python

1. <https://reza-budipr.medium.com/membuat-etl-sederhana-menggunakan-luigi-python-97f3cf25a5fd>
2. Export database dvdrental to csv. Just extraction film tables in 'title', and 'release\_year' column

```
1 import luigi
2 import psycopg2
3 import datetime
4 import pandas as pd
5 from sqlalchemy import create_engine
6 from sqlalchemy.sql.functions import user
7 class ExportDbToCsv(luigi.Task):
8     rundate_ = datetime.datetime.now().strftime('%Y-%m-%d %H:%M:%S')
9     host = "localhost"
10    port = 5432
11    user = "postgres"
12    password = "admin"
13    database = "iykra-sql"
14    output_file = "iykra-sql.csv"
15
16    def requires(self):
17        return []
18    def output(self):
19        return luigi.LocalTarget(self.output_file)
20    def run(self):
21        connected_ = psycopg2.connect(
22            user = self.user,
23            password = self.password,
24            host = self.host,
25            port = self.port,
26            database = self.database
27        )
28        query = '''
29        SELECT title, release_year FROM film
30        '''
31        new_tabel = pd.read_sql(sql = query, con = connected_)
32        new_tabel.to_csv(self.output_file, index = False)
33 if __name__ == '__main__':
34     luigi.run(["--local-scheduler"], main_task_cls=ExportDbToCsv)
```

```
C:\Users\rezab\Documents\IYKRA Fellowship>python main.py
DEBUG: Checking if ExportDbToCsv() is complete
INFO: Informed scheduler that task ExportDbToCsv__99914b932b has status PENDING
INFO: Done scheduling tasks
INFO: Running Worker with 1 processes
DEBUG: Asking scheduler for work...
DEBUG: Pending tasks: 1
INFO: [pid 944] Worker Worker(salt=954149003, workers=1, host=DESKTOP-FLDI3I9, username=rezab, pid=944) running Export
DbToCsv()
INFO: [pid 944] Worker Worker(salt=954149003, workers=1, host=DESKTOP-FLDI3I9, username=rezab, pid=944) done Export
DbToCsv()
DEBUG: 1 running tasks, waiting for next task to finish
INFO: Informed scheduler that task ExportDbToCsv__99914b932b has status DONE
DEBUG: Asking scheduler for work...
DEBUG: Done
DEBUG: There are no more tasks to run at this time
INFO: Worker Worker(salt=954149003, workers=1, host=DESKTOP-FLDI3I9, username=rezab, pid=944) was stopped. Shutting down
Keep-Alive thread
INFO:
===== Luigi Execution Summary =====

Scheduled 1 tasks of which:
* 1 ran successfully:
  - 1 ExportDbToCsv()

This progress looks :) because there were no failed tasks or missing dependencies

===== Luigi Execution Summary =====
```

[illegible]