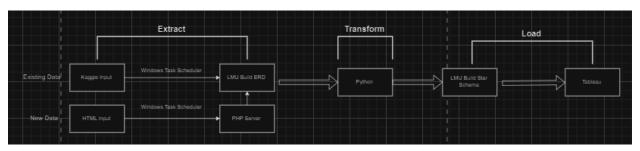
## Automated ETL Pipeline:



## 1. Extract:

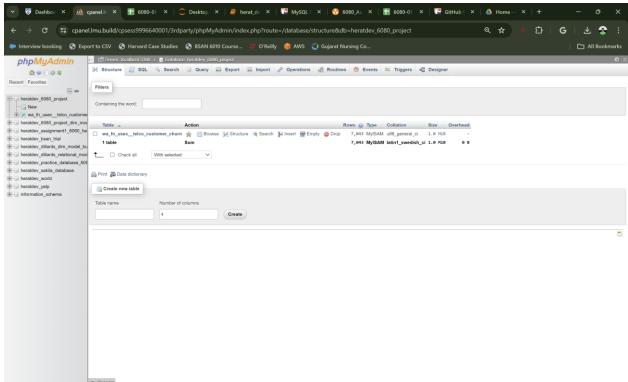
- There are 2 data sources, one is the existing data from Kaggle and the other is from a HTML format.
- The data from Kaggle goes directly into the LMU Build database and here are it's login credentials:
- Here are the connection details to our LMU Build for existing data:

- Hostname: heratdevisha.lmu.build

Username: heratdev\_6080 Password: \$HEMAproject

Schema: heratdevisha\_6080\_project

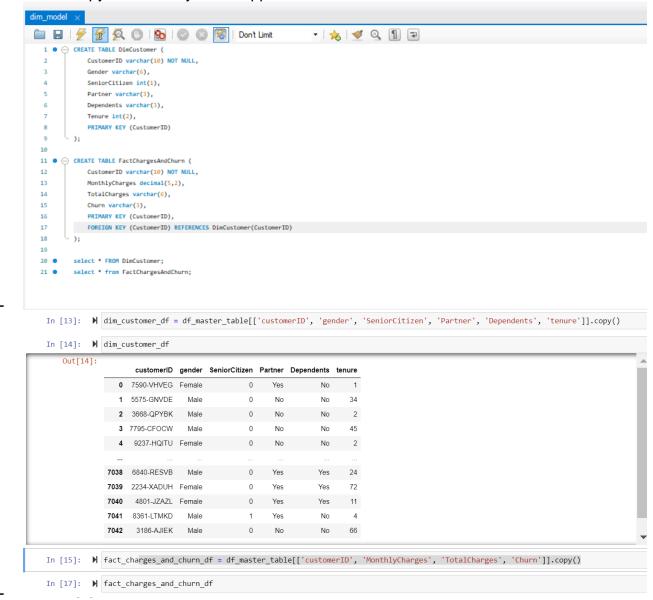
Port: 3306



 We don't have an HTML form but if we are inputting new data then we can create the form and have the data host in an PHP server and then transfer it into the LMU build.

## 2. Transform:

- We made the connection into Python and then made our Star-Schema in it, here is a python and MySQL snippet.



## 3. Load:

 Then we make the connection to our Dim\_Model schema for loading the tables in our Star Schema database in LMU Build. Here are the login credentials:

- Hostname: heratdevisha.lmu.build

Username: heratdev\_admin Password: \$2608HBdevisha

Schema: heratdevisha\_6080\_project

Port: 3306

- Here is a python snippet for loading the tables:

```
In [18]:  # Setting the Login credentials for dimenstion modelb

MYSQL_HOST1 = 'heratdevisha.lmu.build'
MYSQL_USER1 = 'heratdev_admin'
MYSQL_PASSWORD1 = '$2608HBdevisha'
MYSQL_DB1 = 'heratdev_6080_project_dim_model'

lmubuildengine1 = create_engine(f'mysql+mysqlconnector://{MYSQL_USER1}:{MYSQL_PASSWORD1}@{MYSQL_HOST1}/{MYSQL_DB1}')

In [19]:  # Upload the DataFrame to the MySQL database
dim_customer_df.to_sql('DimCustomer', con=lmubuildengine1, if_exists='append', index=False)

Out[19]:  7043

In [20]:  # Upload the DataFrame to the MySQL database
fact_charges_and_churn_df.to_sql('FactChargesAndChurn', con=lmubuildengine1, if_exists='append', index=False)

Out[20]: 7043
```

Lastly we make our Tableau Dashboards by connecting to the Dim\_Model database.