## API EN FASTAPI (Python)

```
import mysql.connector
     from fastapi import FastAPI
     from pydantic import BaseModel
     app = FastAPI()
     config = {
         'user': 'elmoco13',
         'password': 'elmoco13',
         'host': '34.134.48.99',
         'database': 'sopestarea2',
         'raise_on_warnings': True,
     class Item(BaseModel):
         name: str
         gender: str
         multiplayer: int
     cnx = mysql.connector.connect(**config)
     @app.post("/add")
     async def create_games(item: Item):
         insert_sql = f"INSERT INTO games(name, gender, multiplayer) VALUES ('
         {item.name}','{item.gender}',{item.multiplayer})"
         # insert_sql = f"INSERT INTO games(name, gender, multiplayer) VALUES
         cursor = cnx.cursor()
         cursor.execute(insert_sql)
         inserts = cursor.fetchall()
         cursor.close()
         cnx.commit()
33
         return {"item":inserts}
```

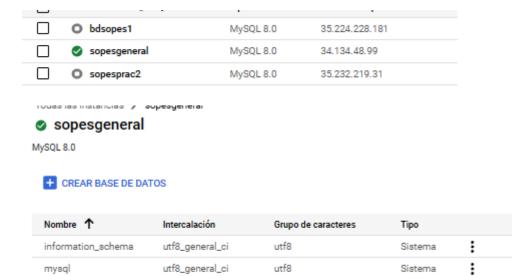
Archivo LOCUST

```
6 ∨ import json
    from random import randrange
     from locust import HttpUser,task,between
10 v class readFile():
11 v def __init__(self):
          self.data = []
        def getData(self):
            size = len(self.data)
            if size > 0:
                index = randrange(0, size - 1) if size > 1 else 0
                return self.data.pop(index)
        def loadFile(self):
            print("LOADING .....")
                with open("MOCK_DATA.json","r") as file:
                   self.data = json.loads(file.read())
25 🗸
            except Exception:
            print(f'Error : {Exception}')
28 v class ExampleTest(HttpUser):
        wait_time = between(0.1,0.9)
        reader = readFile()
        reader.loadFile()
        def on_start(self):
          print("On Start")
        @task
        def index(self):
38 🗸
           data = self.reader.getData()
            headers = {'Content-Type': 'application/json'}
41 🗸
            if data is not None:
            res = self.client.post("/add",headers=headers,data=json.dumps(data))
                print("Empty")
                self.stop(True)
```

## Archivo de Datos

```
MOCK_DATA.json > { } 8 > # multiplayer
     [{"name": "Adele", "gender": "Bartram", "multiplayer":1},
     {"name": "Sarine", "gender": "Ludovico", "multiplayer": 2},
     {"name": "Chiquita", "gender": "Upton", "multiplayer": 3},
     {"name": "Thibaut", "gender": "Karlik", "multiplayer": 4},
     {"name": "Conn", "gender": "Haze", "multiplayer": 5},
     {"name": "Xylina", "gender": "Mersey", "multiplayer": 6},
     {"name": "Lorie", "gender": "Ricca", "multiplayer": 7},
     {"name": "Mimi", "gender": "Niels", "multiplayer": 8},
9
     {"name": "Bealle", "gender": "Hildagarde", "multiplayer": 9},
     {"name": "Valle", "gender": "Clara", "multiplayer": 10},
11
     {"name": "Sofie", "gender": "Rosalinde", "multiplayer": 11},
     {"name": "Guenevere", "gender": "Lothaire", "multiplayer": 12},
     {"name": "Germain", "gender": "Alexis", "multiplayer": 13},
     {"name": "Theodora", "gender": "Waldemar", "multiplayer": 14},
15
     {"name": "Reuven", "gender": "Herminia", "multiplayer": 15},
     {"name": "Bethena", "gender": "Montague", "multiplayer": 16},
     {"name": "Basil", "gender": "Megan", "multiplayer": 17},
     {"name": "Marybelle", "gender": "Babbette", "multiplayer": 18},
19
     {"name": "Onfre", "gender": "Cass", "multiplayer": 19},
     {"name": "Brewer", "gender": "Sukey", "multiplayer": 20},
     {"name":"Jenifer", "gender": "Mikaela", "multiplayer": 21},
     {"name": "Rania", "gender": "Annora", "multiplayer": 22},
23
     {"name": "Lavena", "gender": "Pattin", "multiplayer": 23},
     {"name":"Aubrey","gender":"Dorrie","multiplayer":24},
     {"name": "Meir", "gender": "Bobbye", "multiplayer": 25},
     {"name": "Georgeanne", "gender": "Sander", "multiplayer": 26},
     {"name": "Kimberli", "gender": "Miof mela", "multiplayer": 27},
     {"name": "Carter", "gender": "Asia", "multiplayer": 28},
     {"name": "Elberta", "gender": "Crystie", "multiplayer": 29},
     {"name": "Peggie", "gender": "Ebony", "multiplayer": 30},
31
     {"name": "Bryn", "gender": "Edyth", "multiplayer": 31},
     {"name": "Angele", "gender": "Wanids", "multiplayer": 32},
     {"name": "Woodie", "gender": "Nara", "multiplayer": 33},
34
     {"name": "Clari", "gender": "Dorisa", "multiplayer": 34},
     {"name": "Skippie", "gender": "Gary", "multiplayer": 35},
     {"name": "Katerina", "gender": "Dwight", "multiplayer": 36},
     {"name": "Francois", "gender": "Veda", "multiplayer": 37},
     {"name": "Forbes", "gender": "Farlay", "multiplayer": 38},
39
     {"name": "Erik", "gender": "Cynthie", "multiplayer": 39},
     {"name": "Cicely", "gender": "Willey", "multiplayer": 40},
10
     {"name":"Jerrilee", "gender": "June", "multiplayer": 41},
     {"name": "Stacee", "gender": "Giulia", "multiplayer": 42},
     {"name": "Eveleen", "gender": "Salvador", "multiplayer": 43},
     {"name": "Eadie", "gender": "Jordan", "multiplayer": 44},
     {"name": "Fawnia", "gender": "Barbie", "multiplayer": 45},
16
     {"name": "Felike", "gender": "Salomo", "multiplayer": 46},
     {"name": "Fields", "gender": "Roley", "multiplayer": 47},
     {"name":"Loren", "gender": "Gigi", "multiplayer": 48},
```

## Instancia de la Base de Datos



utf8

utf8

utf8mb4

utf8mb4

Sistema

Sistema

Usuario

Sistema

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## Captura de request en Locust

mysql

sys

sopestarea2

performance\_schema



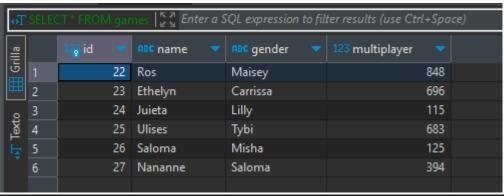
Captura de los datos ingresados a la base de datos

utf8\_general\_ci

utf8\_general\_ci

utf8mb4\_0900\_ai\_ci

utf8mb4\_0900\_ai\_ci



```
Application startup complete.
IMPRIMEINDO OBJETO NAME: Ros
IMPRIMEINDO OBJETO GENDER: Maisey
IMPRIMEINDO OBJETO MULTI: 848
         127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
IMPRIMEINDO OBJETO NAME: Ethelyn
IMPRIMEINDO OBJETO GENDER: Carrissa
IMPRIMEINDO OBJETO MULTI: 696
         127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
IMPRIMEINDO OBJETO NAME: Juieta
IMPRIMEINDO OBJETO GENDER: Lilly
IMPRIMEINDO OBJETO MULTI: 115
INFO:
         127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
IMPRIMEINDO OBJETO NAME: Ulises
IMPRIMEINDO OBJETO GENDER: Tybi
IMPRIMEINDO OBJETO MULTI: 683
         127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
IMPRIMEINDO OBJETO NAME: Saloma
IMPRIMEINDO OBJETO GENDER: Misha
IMPRIMEINDO OBJETO MULTI: 125
INFO:
         127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
IMPRIMEINDO OBJETO NAME: Nananne
IMPRIMEINDO OBJETO GENDER: Saloma
IMPRIMEINDO OBJETO MULTI: 394
        127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
INFO:
WARNING: WatchFiles detected changes in 'main.py'. Reloading...
INFO: Started server process [8348]
```