If you want to use the database

Step 1. Download and install docker
https://www.docker.com/products/docker-desktop/
You don't have to login to anything I guess
Step 2. Navigate to ../AttendMate-Backend/db/attendMateDB in CMD or SHELL, with either docker desktop running or some other docker engine run the commands:

docker compose up : turns the container on, if first time then it would also build the docker

docker compose up -d : turns the container on, but in detached mode
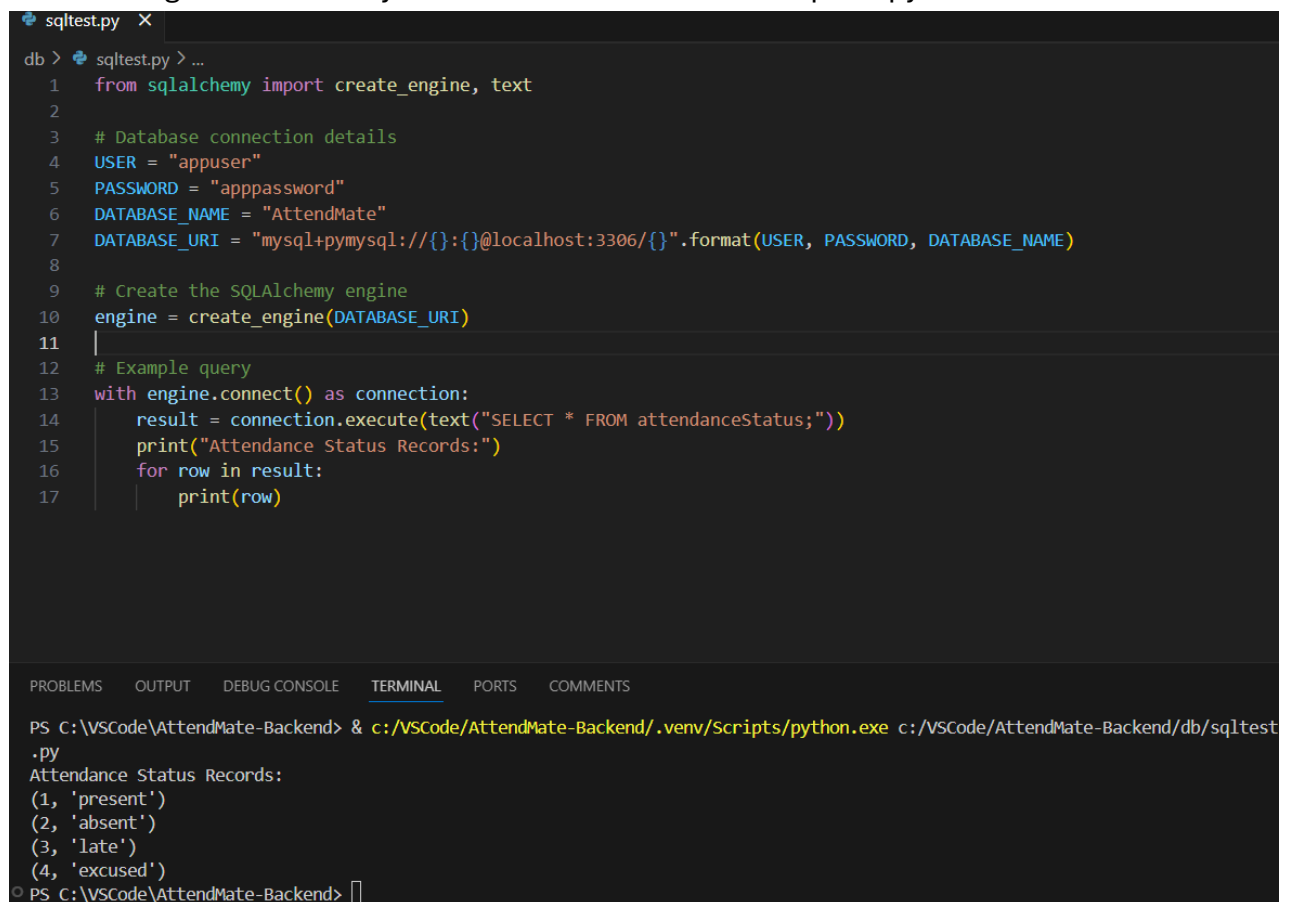
docker compose down : turns the container off

To rebuild the docker, for example when you want to do some changes to the tables or something
docker compose down -v : turns the container off and removes all containers and images

docker compose up -d --build –force-recreate : rebuilds the container
If you have anything running on port 3306 the building process will crash so change your ports either here or there
After turning on the docker you should be able to run the sqltest.py file

```python
from sqlalchemy import create_engine, text

# Database connection details
USER = "appuser"
PASSWORD = "apppassword"
DATABASE_NAME = "AttendMate"
DATABASE_URI = "mysql+pymysql://{}:{}@localhost:3306/{}".format(USER, PASSWORD, DATABASE_NAME)

# Create the SQLAlchemy engine
engine = create_engine(DATABASE_URI)

# Example query
with engine.connect() as connection:
    result = connection.execute(text("SELECT * FROM attendanceStatus;"))
    print("Attendance Status Records:")
    for row in result:
        print(row)
```
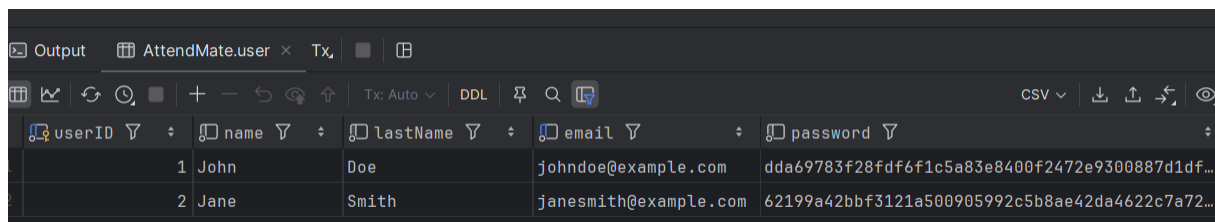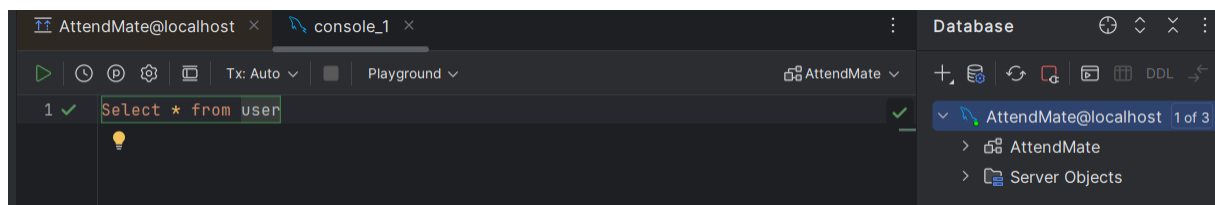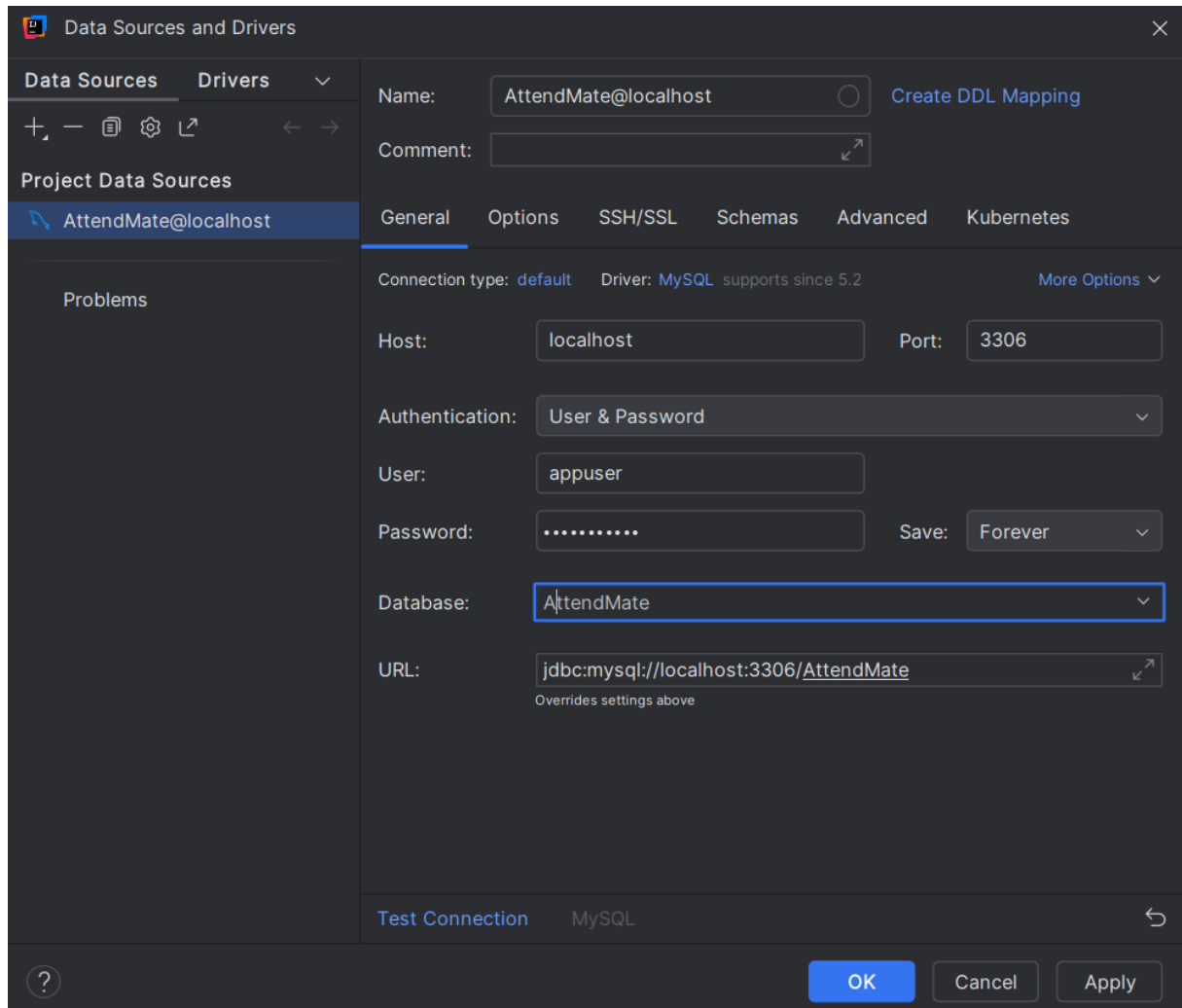
```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    COMMENTS

PS C:\VSCode\AttendMate-Backend> & c:/VSCode/AttendMate-Backend/.venv/Scripts/python.exe c:/VSCode/AttendMate-Backend/db/sqltest
.py
Attendance Status Records:
(1, 'present')
(2, 'absent')
(3, 'late')
(4, 'excused')
PS C:\VSCode\AttendMate-Backend>
```

You should be able to easily access the database and do some queries using IntellijIDEA
There, in a new project add a database connection

User : appuser

password : apppassword

There are also sample queries how to put new data into tables in schema.sql file