# March 4

## setup

CD C:\Users\andrew.dilley\development\sql-demo

venv\Scripts\activate

## running sql-demo.py from the Visual Studio Code console

ModuleNotFoundError: No module named 'dotenv'

pip install python-dotenv

ModuleNotFoundError: No module named 'langchain'

pip install langchain

ModuleNotFoundError: Module langchain\_community.utilities not found. Please install langchain-community to access this module. You can install it using `pip install -U langchain-community`

pip install -U langchain-community

ModuleNotFoundError: No module named 'pyodbc'

pip install pyodbc

application now runs

next time

pip install -r requirements.txt

running app1.py

echo "# LangChainQASQL" >> README.md

git init

git commit -m "first commit"

git branch -M main

git remote add origin https://github.com/AndrewDilley/LangChainQASQL.git

git push -u origin main

# March 12

git add .

git commit -m "simple queries working"

git status

git push -u origin main

# March 13

## setup

CD C:\Users\andrew.dilley\development\sql-demo

venv\Scripts\activate

## how are the vw\_maximo\_workorders, vw\_Maximo\_Asset and vw\_Maximo\_Locations joined?

  select top 100  
    wo.wonum,  
     wo.workorder\_description,  
     wo.asset\_id,  
     wo.asset\_description,  
     a.status\_desc,  
     a.assetnum,  
     lo.location\_code  
  from  
     src.vw\_maximo\_workorders wo  
join src.vw\_Maximo\_Asset a on (wo.asset\_id = a.assetnum)  
join src.vw\_Maximo\_Locations lo on (wo.location\_description = lo.location\_description)

[Maximo Information](https://wannonwater.sharepoint.com/:f:/r/sites/COM-PowerBIUserGroup/Shared%20Documents/Projects/Maximo%20Information?csf=1&web=1&e=gzCeFY)

## Take a copy

CD C:\Users\andrew.dilley\development\sql-demo

git add .

git commit -m "complex queries working"

git status

git push -u origin main

<http://localhost:5000>

## new flask app

git add .

git commit -m "new flask app"

git status

git push -u origin main

# March 21

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A screenshot of a computer

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<https://chatgpt.com/share/67dd09ad-915c-800d-9837-b7d1a318095b>

## Specific join instructions

git add .

git commit -m "specific join instructions"

git status

git push -u origin main

## Adding visualisation option

This works:  
  
how many work orders were there in June 2023, July 2023 and August 2023

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Note: apart from the September data

This doesn’t:

on a monthly basis, how many work orders were there in 2022, 2023 and 2024

Note: coding changes made, but no difference

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! idea for enhancement – spinner to indicate processing

## First success with visualisation

git add .

git commit -m "first success with visualiations"

git status

git push -u origin main

March 24

**Final Answer:**  
The top 5 assets in terms of the number of work orders are: 1. \*\*Asset Number:\*\* 23230 - \*\*Description:\*\* Corporate - Warrnambool Depot - \*\*Number of Work Orders:\*\* 451 2. \*\*Asset Number:\*\* 23257 - \*\*Description:\*\* Warrnambool - Pertobe Rd SPS - \*\*Number of Work Orders:\*\* 426 3. \*\*Asset Number:\*\* 23254 - \*\*Description:\*\* Warrnambool - Morriss Rd SPS - \*\*Number of Work Orders:\*\* 370 4. \*\*Asset Number:\*\* 23242 - \*\*Description:\*\* Warrnambool - Dickson St SPS - \*\*Number of Work Orders:\*\* 352 5. \*\*Asset Number:\*\* 107024 - \*\*Description:\*\* Corporate - Portland Depot - Wyatt St (at Storage) - \*\*Number of Work Orders:\*\* 315

for asset number 23230 please give the number of work orders for June 2023, July 2023 and August 2023

**Final Answer:**  
For asset number 23230, the number of work orders in the specified months are as follows: - June 2023: 7 work orders - July 2023: 5 work orders - August 2023: 14 work orders

for asset number 23230 please give the number of work orders for June 2023, July 2023 and August 2023

and

for asset number 23243 please give the number of work orders for June 2023, July 2023 and August 2023

in a table with work orders for each asset in the rows and months in the columns

**Final Answer:**  
Here is the table showing the number of work orders for the specified assets across June 2023, July 2023, and August 2023: | Asset Number | June 2023 | July 2023 | August 2023 | |--------------|-----------|------------|--------------| | 23230 | 7 | 5 | 14 | | 23243 | 2 | 0 | 5 |

- For asset number \*\*23230\*\*, there were \*\*7\*\* work orders in June, \*\*5\*\* in July, and \*\*14\*\* in August. - For asset number \*\*23243\*\*, there were \*\*2\*\* work orders in June, \*\*0\*\* in July, and \*\*5\*\* in August.

how many work orders were there for asset number 23230 in June 2023, July 2023 and August 2023

**Final Answer:**  
In the specified months for asset number 23230, the number of work orders was as follows: - June 2023: 7 work orders - July 2023: 6 work orders - August 2023: 9 work orders If you need more information or further assistance, feel free to ask!

No chart!! Because look at the tool message

**Tool Message:**  
[(7, 6), (6, 7), (9, 8), (2, 9)]  
  
**Tool Message:**  
In the specified months for asset number 23230, the number of work orders was as follows: - June 2023: 7 work orders - July 2023: 6 work orders - August 2023: 9 work orders If you need more information or further assistance, feel free to ask!

No years

A screenshot of a computer screen

AI-generated content may be incorrect.

on a monthly basis, how many work orders were there in 2022, 2023 and 2024

A screenshot of a graph

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for June 2023, how many work orders were there for asset number 23230 and asset number 23257?

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as two distinct values, for June 2023, how many work orders were there for asset number 23230 and asset number 23257?

**Tool Message:**  
```sql SELECT COUNT(\*) AS work\_order\_count, asset\_id FROM src.vw\_Maximo\_WorkOrders WHERE asset\_id IN ('23230', '23257') AND MONTH(schedstart) = 6 AND YEAR(schedstart) = 2023 GROUP BY asset\_id; ```  
  
**Tool Message:**  
  
  
**Tool Message:**  
[(6, '23230'), (5, '23257')]  
  
**Tool Message:**  
In June 2023, there were 6 work orders for asset number 23230 and 5 work orders for asset number 23257.

**Final Answer:**  
In June 2023, there were 6 work orders for asset number 23230 and 5 work orders for asset number 23257.

No charting for this

A screenshot of a computer

AI-generated content may be incorrect.

as three distinct values, for June 2023, how many work orders were there for asset number 23230, asset number 23242 and asset number 23257?

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Wrong – 23257 should have 12

A screenshot of a graph

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git add .

git commit -m "multi coloured bar charts"

git status

git push -u origin main