URGS analysis

# April 10

## Set up github

**1. Set Up Your Local Repository**

1. **Navigate to Your Project Folder:**  
   Open your terminal (or command prompt) and navigate to the folder that contains your project files.

cd /path/to/your/project-folder

1. **Initialize a Git Repository:**  
   Run the following command to initialize your project folder as a Git repository:

git init

1. **Create a .gitignore File (Optional but Recommended):**  
   Create a .gitignore file to exclude files you don’t want to track (e.g., virtual environments, cache files). An example for a Python project might be:

gitignore

# Python cache files

\_\_pycache\_\_/

\*.py[cod]

# Virtual environment

venv/

env/

# Jupyter Notebook checkpoints

.ipynb\_checkpoints/

Save this file in your project root.

1. **Add Your Files to the Staging Area:**  
   Add your project files using:

git add .

1. **Make an Initial Commit:**  
   Commit your files with a message:

git commit -m "Initial commit"

**2. Create and Connect to a GitHub Repository**

1. **Create a New Repository on GitHub:**
   * Log in to your GitHub account.
   * Click the "+" icon in the top right and select "New repository".
   * Give your repository a name, choose its visibility (public/private), and click "Create repository".  
     *(For more details, see* [*GitHub’s Create a Repo guide*](https://docs.github.com/en/get-started/quickstart/create-a-repo)*).*

*https://github.com/AndrewDilley/URGS.git*

1. **Link Your Local Repository to GitHub:**  
   In your terminal, add a remote pointing to your new GitHub repository. Replace <YourUsername> and <RepoName> with your details:

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

If your local branch is still called master but GitHub expects main, you can rename your branch:

git branch -M main

1. **Push Your Code to GitHub:**  
   Push your committed changes to the remote repository with:

git push -u origin main

**Verification**

* **Check Your Repository:**  
  Open your GitHub repository page in a web browser to verify that your files have been successfully uploaded.
* **Future Commits:**  
  For future changes, simply repeat the following:
  1. git add .
  2. git commit -m "Your commit message"
  3. git push

# March 14

## Further development

CD C:\Users\andrew.dilley\development\URGS

* **Future Commits:**  
  For future changes, simply repeat the following:

git add .

git commit -m "data wrangling and exploration"

git remote -v

git push

A screenshot of a computer

AI-generated content may be incorrect.

Need to ask Peter Ball for:

1. The data above going back to include 2007
2. The aged debt data also going back to include 2007

# 15 April

## URGS Sql developed

select

prop.property\_no,

sub.description,

e.amount,

e.description,

e.evt\_datetime

from

evt e,

account acc,

property prop,

suburb sub

where

e.id\_number\_1 = acc.pk

and

acc.fk\_property = prop.pk

and

prop.fk\_suburb = sub.code

and

e.[fk\_evt\_sub\_type] = 'URGSAPP'

order by e.evt\_datetime

CD C:\Users\andrew.dilley\development\URGS

git add .

git commit -m "data from extract from database"

git remote -v

git push

SELECT t.name AS TableName, c.name AS ColumnName

FROM sys.columns c

JOIN sys.tables t ON c.object\_id = t.object\_id

WHERE c.name LIKE '%PartOfColumnName%';

select pc.fk\_financial\_year, pc.month, pc.pk\_porg, pc.pk\_account, pc.pension\_type\_desc, tb.pk\_account, tb.amt\_debit

FROM v\_sts\_act\_porg\_count\_full as pc, sts\_prop\_act\_trial\_balance as tb

where pc.pk\_account = tb.pk\_account

and pc.pk\_sts\_result\_run = 11387

and tb.pk\_sts\_result\_run = 11355

select pc.fk\_financial\_year, pc.month, pc.pk\_porg, pc.pk\_account, pc.pension\_type\_desc, tb.pk\_account, tb.amt\_debit, sub.description

FROM v\_sts\_act\_porg\_count\_full as pc, sts\_prop\_act\_trial\_balance as tb, property as prop, suburb as sub

where pc.pk\_account = tb.pk\_account and pc.pk\_property = prop.pk and prop.fk\_suburb = sub.code

and pc.pk\_sts\_result\_run = 11387

and tb.pk\_sts\_result\_run = 11355

WITH RankedResults AS (

SELECT

[pk],

[fk\_sts\_result],

[fk\_financial\_year],

[month],

ROW\_NUMBER() OVER (PARTITION BY [fk\_financial\_year] ORDER BY [pk]) AS rn

FROM [AQTEST].[dbo].[sts\_result\_run]

WHERE fk\_sts\_result = 7

AND [month] = 12

AND (fk\_financial\_year in ('201718', '201819','201920','202021','202122','202223','202324', '202425'))

)

SELECT

[pk],

[fk\_sts\_result],

[fk\_financial\_year],

[month]

FROM RankedResults

WHERE rn = 1;

WITH RankedResults AS (

SELECT

[pk],

[fk\_sts\_result],

[fk\_financial\_year],

[month],

ROW\_NUMBER() OVER (PARTITION BY [fk\_financial\_year] ORDER BY [pk]) AS rn

FROM [AQTEST].[dbo].[sts\_result\_run]

WHERE fk\_sts\_result = 9

AND [month] = 12

AND (fk\_financial\_year in ('201718', '201819','201920','202021','202122','202223','202324', '202425'))

)

SELECT

[pk],

[fk\_sts\_result],

[fk\_financial\_year],

[month]

FROM RankedResults

WHERE rn = 1;

**PC**

5054 9 201718 12

6109 9 201819 12

7008 9 201920 12

7736 9 202021 12

8362 9 202122 12

9080 9 202223 12

10197 9 202324 12

11161 9 202425 12

**TB**

5044 7 201718 12

6094 7 201819 12

6972 7 201920 12

7702 7 202021 12

8340 7 202122 12

9108 7 202223 12

10225 7 202324 12

11204 7 202425 12

SELECT

pc.fk\_financial\_year,

pc.month,

pc.pk\_porg,

pc.pk\_account,

pc.pension\_type\_desc,

SUM(tb.amt\_debit) AS amt\_debit

FROM

v\_sts\_act\_porg\_count\_full AS pc

JOIN

sts\_prop\_act\_trial\_balance AS tb

ON pc.pk\_account = tb.pk\_account

WHERE

pc.pk\_sts\_result\_run = 5054

AND tb.pk\_sts\_result\_run = 5044

GROUP BY

pc.fk\_financial\_year,

pc.month,

pc.pk\_porg,

pc.pk\_account,

pc.pension\_type\_desc

UNION

SELECT

pc.fk\_financial\_year,

pc.month,

pc.pk\_porg,

pc.pk\_account,

pc.pension\_type\_desc,

SUM(tb.amt\_debit) AS amt\_debit

FROM

v\_sts\_act\_porg\_count\_full AS pc

JOIN

sts\_prop\_act\_trial\_balance AS tb

ON pc.pk\_account = tb.pk\_account

WHERE

pc.pk\_sts\_result\_run = 6109

AND tb.pk\_sts\_result\_run = 6094

GROUP BY

pc.fk\_financial\_year,

pc.month,

pc.pk\_porg,

pc.pk\_account,

pc.pension\_type\_desc

**Dataset: HistoricDebtProfile.csv**

SELECT

pc.fk\_financial\_year,

pc.month,

pc.pk\_porg,

pc.pk\_account,

pc.pension\_type\_desc,

SUM(tb.amt\_debit) AS amt\_debit

FROM v\_sts\_act\_porg\_count\_full AS pc

INNER JOIN sts\_prop\_act\_trial\_balance AS tb

ON pc.pk\_account = tb.pk\_account

WHERE

(pc.pk\_sts\_result\_run = 5054 AND tb.pk\_sts\_result\_run = 5044)

OR (pc.pk\_sts\_result\_run = 6109 AND tb.pk\_sts\_result\_run = 6094)

OR (pc.pk\_sts\_result\_run = 7008 AND tb.pk\_sts\_result\_run = 6972)

OR (pc.pk\_sts\_result\_run = 7736 AND tb.pk\_sts\_result\_run = 7702)

OR (pc.pk\_sts\_result\_run = 8362 AND tb.pk\_sts\_result\_run = 8340)

OR (pc.pk\_sts\_result\_run = 9080 AND tb.pk\_sts\_result\_run = 9108)

OR (pc.pk\_sts\_result\_run = 10197 AND tb.pk\_sts\_result\_run = 10225)

OR (pc.pk\_sts\_result\_run = 11161 AND tb.pk\_sts\_result\_run = 11204)

GROUP BY

pc.fk\_financial\_year,

pc.month,

pc.pk\_porg,

pc.pk\_account,

pc.pension\_type\_desc;

CD C:\Users\andrew.dilley\development\URGS

git add .

git commit -m "historic debt profile"

git remote -v

git push

# 17 March

## Targeting specific accounts

**Dataset: URGS\_account.csv**

select distinct

acc.pk\_account,

e.amount,

e.description,

e.evt\_datetime

from

evt e,

tb\_account acc

where

e.id\_number\_1 = acc.pk\_account

and

e.[fk\_evt\_sub\_type] = 'URGSAPP'

order by e.evt\_datetime

## Historic average debt by district

Dataset: WaterCopnnections\_ESC

SELECT [pk\_sts\_result\_run]

,[pk\_property]

,[pk\_sts\_prop\_count\_type]

,[prop\_count]

FROM [AQTESTP].[dbo].[sts\_prop\_count]

where pk\_sts\_result\_run = 11200 and [pk\_sts\_prop\_count\_type] = 'WC'

CD C:\Users\andrew.dilley\development\URGS

git add .

git commit -m "targeting specific account groups"

git remote -v

git push

**dataset: AccountDistrict2024.csv**

SELECT distinct a.[pk\_district]

,a.[pk\_account]

,d.description

FROM [AQTEST].[dbo].[tb\_account] as a , [AQTEST].[dbo].[district] as d

where a.pk\_district = d.code

and year(a.pk\_date) = 2024

**dataset: PorgAccount20212025.csv**

SELECT distinct [pk\_porg]

,[pk\_account]

,[fk\_financial\_year]

FROM [AQTEST].[dbo].[v\_sts\_porg\_count\_full]

where [pk\_sts\_result\_run] = 11387

and fk\_financial\_year in ( 202021, 202122, 202223, 202324, 202425)

**Dataset: HistoricDebtProfile.csv**

Columns: fk\_financial\_year, month, pk\_porg, pk\_account, pension\_type\_desc, amt\_debit

CD C:\Users\andrew.dilley\development\URGS

git add .

git commit -m "historic average debt by district"

git remote -v

git push

# April 28

## URGS profile over time

**dataset: AccountDistrict2024.csv**

**Dataset: URGS\_account.csv**

CD C:\Users\andrew.dilley\development\URGS

git add .

## git commit -m " URGS profile over time"

git remote -v

git push