SOP Document for GIT Schemachange

Different Types of Files in Versioning:

File Type	Naming Convention	Executes When	Use Cases
Versioned (V)	`V1.0.1__desc.sql`	Once, in order	DDL, DML, one-time changes
Repeatable (R)	`R__desc.sql`	When a file changes	Views, functions, procedures
Always Run	Tool-specific (e.g., tag)	Every time	Cleanup tasks, seed reloading

Repo Folder Structures:

```None
Dimension
        HOW
                1_Tables
                        V0.0.1__DIMENSION_HOW_<<TABLE_NAME_A>>.sql
                        V0.0.2__DIMENSION_HOW_<<TABLE_NAME_B>>.sql
                2_Views
                        R__2_1_DIMENSION_HOW_VW_<<VIEW_NAME_A>>.sql
                        R__2_2_DIMENSION_HOW_VW_<<VIEW_NAME_B>>.sql
                3_FileFormats
                        R__3_1_DIMENSION_HOW_FF_<<fileforamt_name_a>>.sql
                4_Functions
                        R__4_1_DIMENSION_HOW_FN_<<FUNCTION_NAME_A>>.sql
                5_Procedures
                        R__5_1_DIMENSION_HOW_PROC_<<PROCEDURE_NAME_A>>.sql
                6_Tasks_and_Streams
                        R__6_1_DIMENSION_HOW_TSK_<<TASK_NAME_A>>.sql
                        R__6_2_DIMENSION_HOW_STRM_<<STREAM_NAME_A>>.sql
                7_Alter_and_Remove
                        R__7_1_DIMENSION_HOW_<<TABLE_NAME_OPS>>.sql
                        R__7_1_DIMENSION_HOW_<<TABLE_NAME_OPS_B>>.sql
                        --Alter / Drop / Truncate / Update / Insert / Delete Tables

        METADATA
                1_Tables
                        V0.0.3__DIMENSION_METADATA_<<TABLE_NAME_A>>.sql
                        V0.0.4__DIMENSION_METADATA_<<TABLE_NAME_B>>.sql
                2_Views
                        R__2_1_DIMENSION_METADATA_VW_<<VIEW_NAME_A>>.sql
                        R__2_2_DIMENSION_METADATA_VW_<<VIEW_NAME_B>>.sql
                3_FileFormats
                        R__3_1_DIMENSION_METADATA_FF_<<fileforamt_name_a>>.sql
                4_Functions
                        R__4_1_DIMENSION_METADATA_FN_<<FUNCTION_NAME_A>>.sql
                5_Procedures
                        R__5_1_DIMENSION_METADATA_PROC_<<PROCEDURE_NAME_A>>.sql
                6_Tasks_and_Streams
                        R__6_1_DIMENSION_METADATA_TSK_<<TASK_NAME_A>>.sql
                        R__6_2_DIMENSION_METADATA_STRM_<<STREAM_NAME_A>>.sql
                7_Alter_and_Remove
                        R__7_1_DIMENSION_METADATA_<<TABLE_NAME_OPS_A>>.sql
                        R__7_1_DIMENSION_METADATA_<<TABLE_NAME_OPS_B>>.sql
```

```
              --Alter / Drop / Truncate / Update / Insert / Delete Tables

WHAT
       1_Tables
              V0.0.5__DIMENSION_WHAT_<<TABLE_NAME_A>>.sql
              V0.0.6__DIMENSION_WHAT_<<TABLE_NAME_B>>.sql
       2_Views
              R__2_1_DIMENSION_WHAT_VW_<<VIEW_NAME_A>>.sql
              R__2_2_DIMENSION_WHAT_VW_<<VIEW_NAME_B>>.sql
       3_FileFormats
              R__3_1_DIMENSION_WHAT_FF_<<fileforamt_name_a>>.sql
       4_Functions
              R__4_1_DIMENSION_WHAT_FN_<<FUNCTION_NAME_A>>.sql
       5_Procedures
              R__5_1_DIMENSION_WHAT_PROC_<<PROCEDURE_NAME_A>>.sql
       6_Tasks_and_Streams
              R__6_1_DIMENSION_WHAT_TSK_<<TASK_NAME_A>>.sql
              R__6_2_DIMENSION_WHAT_STRM_<<STREAM_NAME_A>>.sql
       7_Alter_and_Remove
              R__7_1_DIMENSION_WHAT_<<TABLE_NAME_OPS_A>>.sql
              R__7_1_DIMENSION_WHAT_<<TABLE_NAME_OPS_B>>.sql
              --Alter / Drop / Truncate / Update / Insert / Delete Tables

WHEN
       1_Tables
              V0.0.7__DIMENSION_WHEN_<<TABLE_NAME_A>>.sql
              V0.0.8__DIMENSION_WHEN_<<TABLE_NAME_B>>.sql
       2_Views
              R__2_1_DIMENSION_WHEN_VW_<<VIEW_NAME_A>>.sql
              R__2_2_DIMENSION_WHEN_VW_<<VIEW_NAME_B>>.sql
       3_FileFormats
              R__3_1_DIMENSION_WHEN_FF_<<fileforamt_name_a>>.sql
       4_Functions
              R__4_1_DIMENSION_WHEN_FN_<<FUNCTION_NAME_A>>.sql
       5_Procedures
              R__5_1_DIMENSION_WHEN_PROC_<<PROCEDURE_NAME_A>>.sql
       6_Tasks_and_Streams
              R__6_1_DIMENSION_WHEN_TSK_<<TASK_NAME_A>>.sql
              R__6_2_DIMENSION_WHEN_STRM_<<STREAM_NAME_A>>.sql
       7_Alter_and_Remove
              R__7_1_DIMENSION_WHEN_<<TABLE_NAME_OPS_A>>.sql
              R__7_1_DIMENSION_WHEN_<<TABLE_NAME_OPS_B>>.sql
              --Alter / Drop / Truncate / Update / Insert / Delete Tables
```

```
WHERE_
       1_Tables
              V0.0.9__DIMENSION_WHERE__<<TABLE_NAME_A>>.sql
              V0.0.10__DIMENSION_WHERE__<<TABLE_NAME_B>>.sql
       2_Views
              R__2_1_DIMENSION_WHERE__VW_<<VIEW_NAME_A>>.sql
              R__2_2_DIMENSION_WHERE__VW_<<VIEW_NAME_B>>.sql
       3_FileFormats
              R__3_1_DIMENSION_WHERE__FF_<<fileforamt_name_a>>.sql
       4_Functions
              R__4_1_DIMENSION_WHERE__FN_<<FUNCTION_NAME_A>>.sql
       5_Procedures
              R__5_1_DIMENSION_WHERE__PROC_<<PROCEDURE_NAME_A>>.sql
       6_Tasks_and_Streams
              R__6_1_DIMENSION_WHERE__TSK_<<TASK_NAME_A>>.sql
              R__6_2_DIMENSION_WHERE__STRM_<<STREAM_NAME_A>>.sql
       7_Alter_and_Remove
              R__7_1_DIMENSION_WHERE__<<TABLE_NAME_OPS_A>>.sql
              R__7_1_DIMENSION_WHERE__<<TABLE_NAME_OPS_B>>.sql
              --Alter / Drop / Truncate / Update / Insert / Delete Tables

WHO
       1_Tables
              V0.0.11__DIMENSION_WHO_<<TABLE_NAME_A>>.sql
              V0.0.12__DIMENSION_WHO_<<TABLE_NAME_B>>.sql
       2_Views
              R__2_1_DIMENSION_WHO_VW_<<VIEW_NAME_A>>.sql
              R__2_2_DIMENSION_WHO_VW_<<VIEW_NAME_B>>.sql
       3_FileFormats
              R__3_1_DIMENSION_WHO_FF_<<fileforamt_name_a>>.sql
       4_Functions
              R__4_1_DIMENSION_WHO_FN_<<FUNCTION_NAME_A>>.sql
       5_Procedures
              R__5_1_DIMENSION_WHO_PROC_<<PROCEDURE_NAME_A>>.sql
       6_Tasks_and_Streams
              R__6_1_DIMENSION_WHO_TSK_<<TASK_NAME_A>>.sql
              R__6_2_DIMENSION_WHO_STRM_<<STREAM_NAME_A>>.sql
       7_Alter_and_Remove
              R__7_1_DIMENSION_WHO_<<TABLE_NAME_OPS_A>>.sql
              R__7_1_DIMENSION_WHO_<<TABLE_NAME_OPS_B>>.sql
              --Alter / Drop / Truncate / Update / Insert / Delete Tables

WHY_HOW
       1_Tables
```

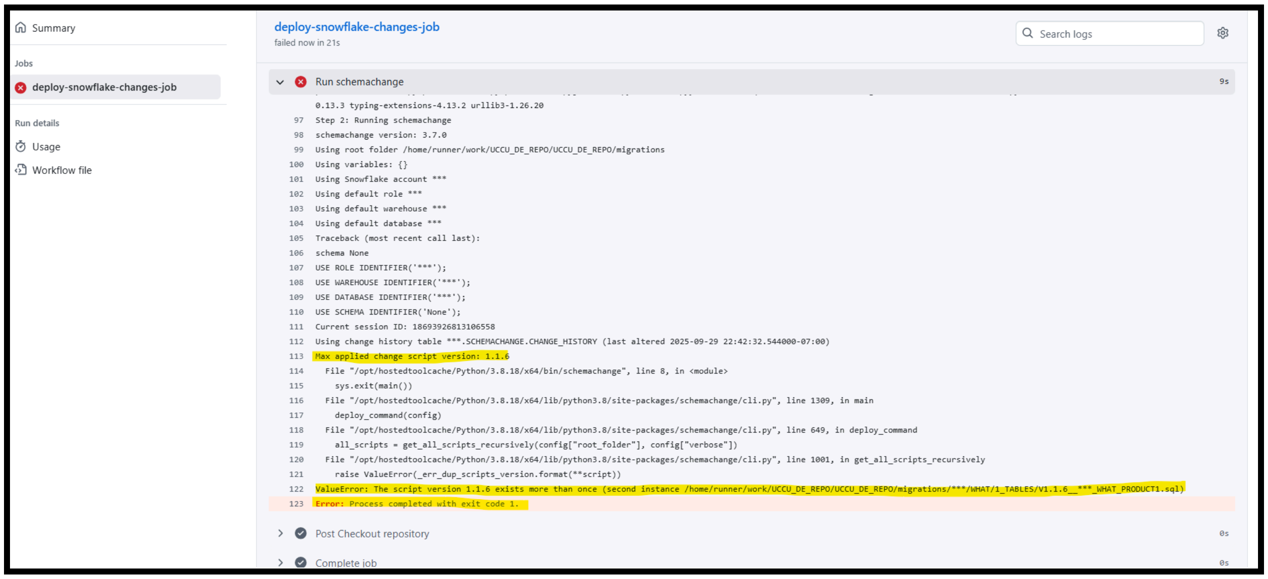
```
                V0.0.13__DIMENSION_WHY_HOW_<<TABLE_NAME_A>>.sql
                V0.0.14__DIMENSION_WHY_HOW_<<TABLE_NAME_B>>.sql
        2_Views
                R__2_1_DIMENSION_WHY_HOW_VW_<<VIEW_NAME_A>>.sql
                R__2_2_DIMENSION_WHY_HOW_VW_<<VIEW_NAME_B>>.sql
        3_FileFormats
                R__3_1_DIMENSION_WHY_HOW_FF_<<fileforamt_name_a>>.sql
        4_Functions
                R__4_1_DIMENSION_WHY_HOW_FN_<<FUNCTION_NAME_A>>.sql
        5_Procedures
                R__5_1_DIMENSION_WHY_HOW_PROC_<<PROCEDURE_NAME_A>>.sql
        6_Tasks_and_Streams
                R__6_1_DIMENSION_WHY_HOW_TSK_<<TASK_NAME_A>>.sql
                R__6_2_DIMENSION_WHY_HOW_STRM_<<STREAM_NAME_A>>.sql
        7_Alter_and_Remove
                R__7_1_DIMENSION_WHY_HOW_<<TABLE_NAME_OPS_A>>.sql
                R__7_1_DIMENSION_WHY_HOW_<<TABLE_NAME_OPS_B>>.sql
                --Alter / Drop / Truncate / Update / Insert / Delete Tables
```

Notes:

1. If a file exceeds a certain number of iterations, archive the current file and switch to a new active file terminal for continued execution. Previous versions should be suffixed with "**_INACTIVE**" and the new version of file should be suffixed with "**_ACTIVE**".

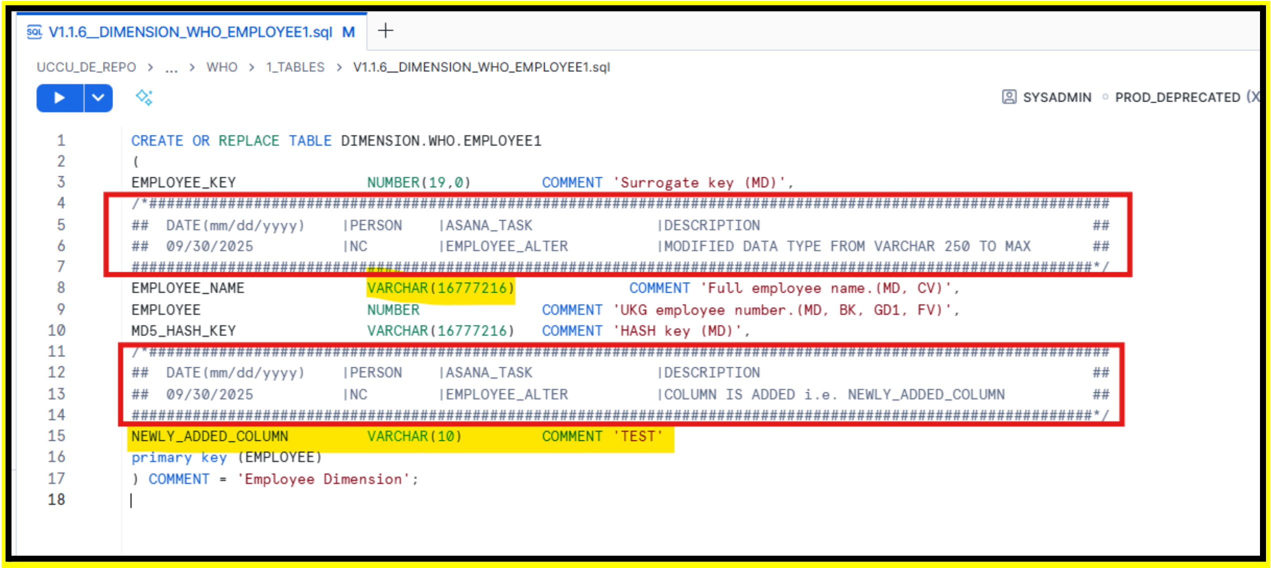
2. To create a new file, below are the steps which we need to follow:
   execute the get_next_version procedure to get the latest version number to be used.
   Use this number as a prefix and then use double underscore (__) with the file_name.
   ex:
   procedure output: V1.1.5
   file name:
   V1.1.5__<<DATABASE_NAME>>_<<SCHEMA_NAME>>_<<TABLE_NAME_A>>.sql

3. While creating a new file after executing the stored procedure get_next_version, if the output version has been utilized by other developers parallelly and pushed into GIT before you, the GIT workflow will fail with the below error and you can get the context with the highlighted rows in below screenshot:



```
0.13.3 typing-extensions-4.13.2 urllib3-1.26.20
Step 2: Running schemachange
schemachange version: 3.7.0
Using root folder /home/runner/work/UCCU_DE_REPO/UCCU_DE_REPO/migrations
Using variables: {}
Using Snowflake account ***
Using default role ***
Using default warehouse ***
Using default database ***
Traceback (most recent call last):
schema None
USE ROLE IDENTIFIER('***');
USE WAREHOUSE IDENTIFIER('***');
USE DATABASE IDENTIFIER('***');
USE SCHEMA IDENTIFIER('None');
Current session ID: 18693926813106558
Using change history table ***.SCHEMACHANGE.CHANGE_HISTORY (last altered 2025-09-29 22:42:32.544000-07:00)
Max applied change script version: 1.1.6
  File "/opt/hostedtoolcache/Python/3.8.18/x64/bin/schemachange", line 8, in <module>
    sys.exit(main())
  File "/opt/hostedtoolcache/Python/3.8.18/x64/lib/python3.8/site-packages/schemachange/cli.py", line 1309, in main
    deploy_command(config)
  File "/opt/hostedtoolcache/Python/3.8.18/x64/lib/python3.8/site-packages/schemachange/cli.py", line 649, in deploy_command
    all_scripts = get_all_scripts_recursively(config["root_folder"], config["verbose"])
  File "/opt/hostedtoolcache/Python/3.8.18/x64/lib/python3.8/site-packages/schemachange/cli.py", line 1001, in get_all_scripts_recursively
    raise ValueError(_err_dup_scripts_version.format(**script))
ValueError: The script version 1.1.6 exists more than once (second instance /home/runner/work/UCCU_DE_REPO/UCCU_DE_REPO/migrations/***/WHAT/1_TABLES/V1.1.6__***_WHAT_PRODUCT1.sql)
Error: Process completed with exit code 1.
```

4. If the altering the table DDL then we need to do the following:
   If a table gets altered or updated, we need to update the original version files for the consistency as below:


V1.1.6__DIMENSION_WHO_EMPLOYEE1.sql M
UCCU_DE_REPO > ... > WHO > 1_TABLES > V1.1.6__DIMENSION_WHO_EMPLOYEE1.sql
SYSADMIN
PROD_DEPRECATED (X

```
CREATE OR REPLACE TABLE DIMENSION.WHO.EMPLOYEE1
(
EMPLOYEE_KEY                NUMBER(19,0)         COMMENT 'Surrogate key (MD)',
/*#############################################################################################
##  DATE(mm/dd/yyyy)     |PERSON     |ASANA_TASK              |DESCRIPTION                        ##
##  09/30/2025           |NC         |EMPLOYEE_ALTER          |MODIFIED DATA TYPE FROM VARCHAR 250 TO MAX  ##
#############################################################################################*/
EMPLOYEE_NAME               VARCHAR(16777216)          COMMENT 'Full employee name.(MD, CV)',
EMPLOYEE                    NUMBER               COMMENT 'UKG employee number.(MD, BK, GD1, FV)',
MD5_HASH_KEY                VARCHAR(16777216)    COMMENT 'HASH key (MD)',
/*#############################################################################################
##  DATE(mm/dd/yyyy)     |PERSON     |ASANA_TASK              |DESCRIPTION                        ##
##  09/30/2025           |NC         |EMPLOYEE_ALTER          |COLUMN IS ADDED i.e. NEWLY_ADDED_COLUMN     ##
#############################################################################################*/
NEWLY_ADDED_COLUMN          VARCHAR(10)          COMMENT 'TEST'
primary key (EMPLOYEE)
) COMMENT = 'Employee Dimension';
```

And make an entry in the repeatable file in step 5 and follow step 6 as well

5. In the Repeatable file, R__7_1_<<DATABASE_NAME>>_<<SCHEMA_NAME>>_<<TABLE_NAME_OPS_A>>.sql will only have these operations **Alter / Drop / Truncate / Update / Insert / Delete Tables.**

6. In the repeatable file if any thing is added, then the below format commenting is recommended:

```SQL
/*##############################################################################
##  DATE(mm/dd/yyyy)       |PERSON       |ASANA_TASK   |DESCRIPTION        ##
##  09/19/2025             |SM           |NO           |ALTER table        ##
##############################################################################*/

ALTER TABLE DIMENSION.METADATA.TEST_TABLE ADD COLUMN ID number;
```

7. For other repeatable files like views, fileformat, function, procedure, tasks, and streams, we would be following the Notes steps 4, 5, and 6.
8. We always need to create a new feature branch from the dev main branch. Once it is pushed and merged, it should be deleted and the same process will follow.

1. GIT commands:

`Developer_branch:` `Individual developer branch(feature branch)`

```None
# 1. Checkout main
git checkout main

# 2. Make sure it's up to date
git pull origin main

# 3. Create a new branch off of main
git checkout -b developer_branch

# 4. Do your work, commit changes
       #To add all the files
git add .
       #to add any specific file/s
git add path/to/your/file
       #to commit the changes you have done.
git commit -m "commit message for the reviewer"

# 5. Push to GitHub and set tracking
git push --set-upstream origin developer_branch
```

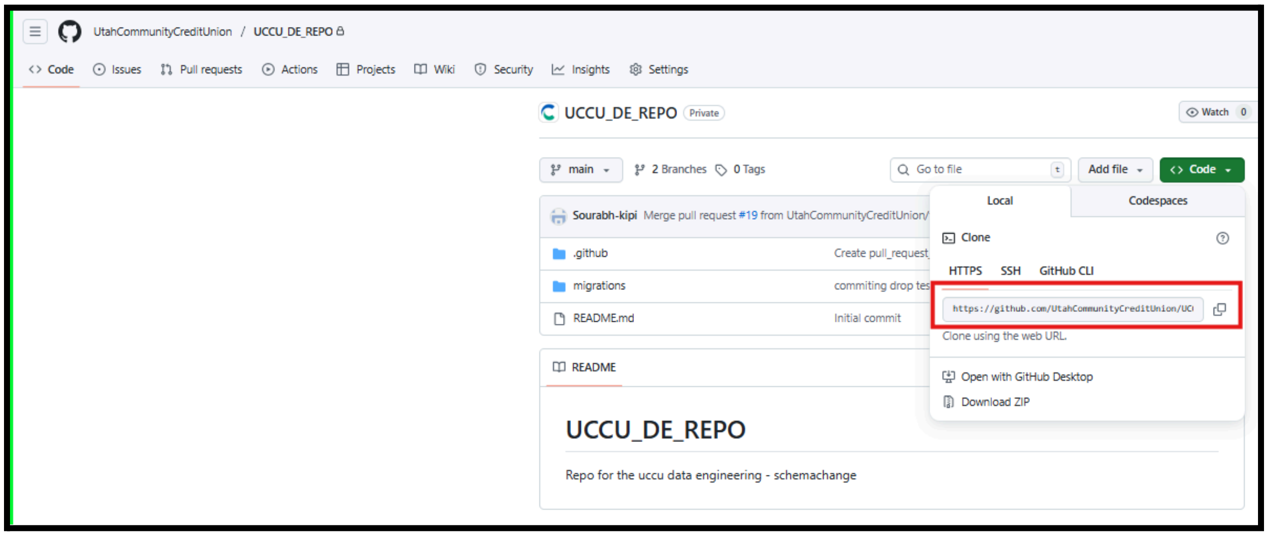
Workspace Integration for Schema Change

Step1: Create the Repo In the github.com where the objects code will be pushed.

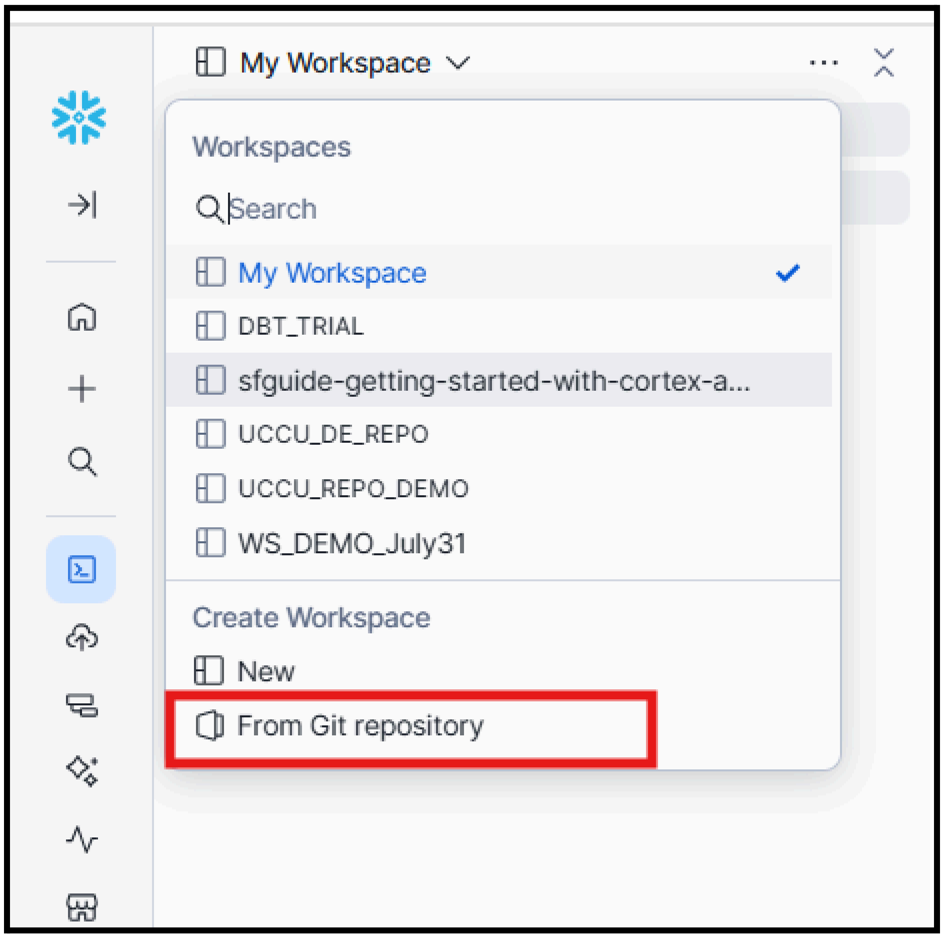
Create the PAT (Personal Access Token) to be used in the snowflake secret which in turn is used in API integration to connect Snowflake with external systems, applications, and services.

```sql
CREATE OR REPLACE SECRET GIT_DE_SECRET
TYPE = password
USERNAME = 'niranjanchechani' -- user name for GIT
PASSWORD = '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'; -- PAT from GIT

CREATE OR REPLACE API INTEGRATION DE_GIT_API_INTEGRATION
API_PROVIDER = git_https_api
API_ALLOWED_PREFIXES = ('https://github.com/niranjanchechani') -- GIT link
where repo presents
ALLOWED_AUTHENTICATION_SECRETS = (GIT_DE_SECRET) -- secret created in the
previous step
ENABLED = TRUE;
```

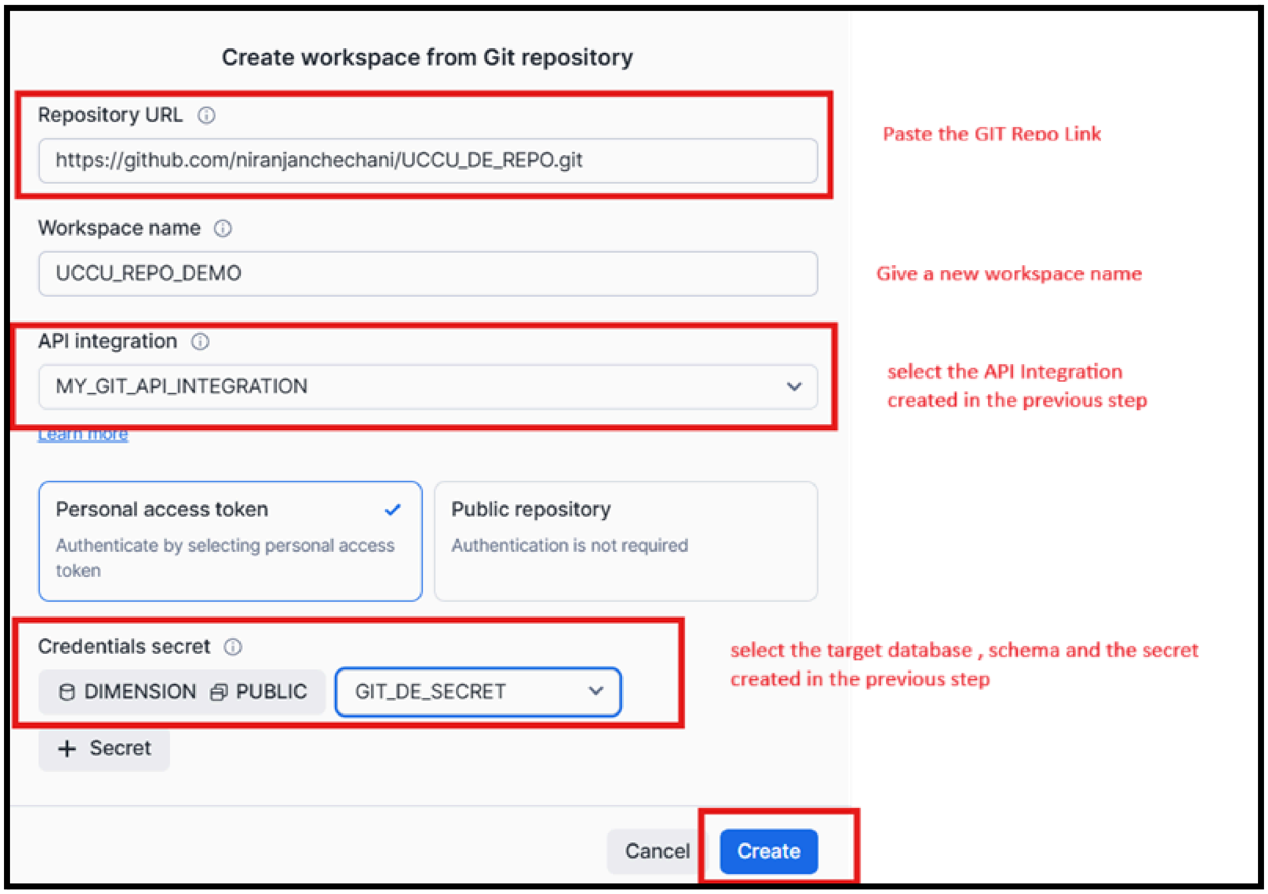
Step2: Copy the link from GITHUB:



Step3:


My Workspace
Workspaces
Search
My Workspace
DBT_TRIAL
sfguide-getting-started-with-cortex-a...
UCCU_DE_REPO
UCCU_REPO_DEMO
WS_DEMO_July31
Create Workspace
New
From Git repository

Step4:



Create workspace from Git repository

Repository URL: https://github.com/niranjanchechani/UCCU_DE_REPO.git

Workspace name: UCCU_REPO_DEMO

API integration: MY_GIT_API_INTEGRATION

Learn more

Personal access token ✓ — Authenticate by selecting personal access token

Public repository — Authentication is not required

Credentials secret: DIMENSION PUBLIC GIT_DE_SECRET

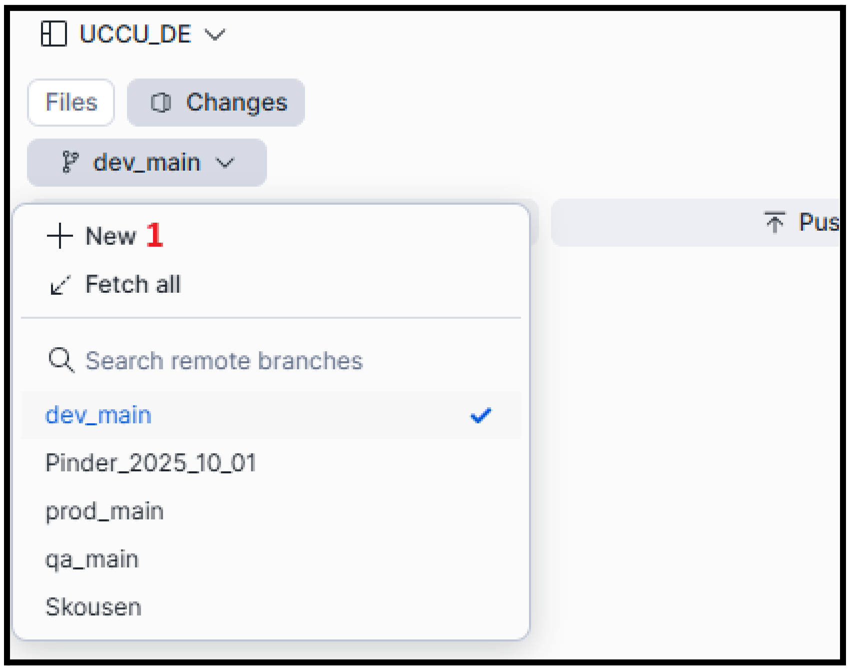
Paste the GIT Repo Link

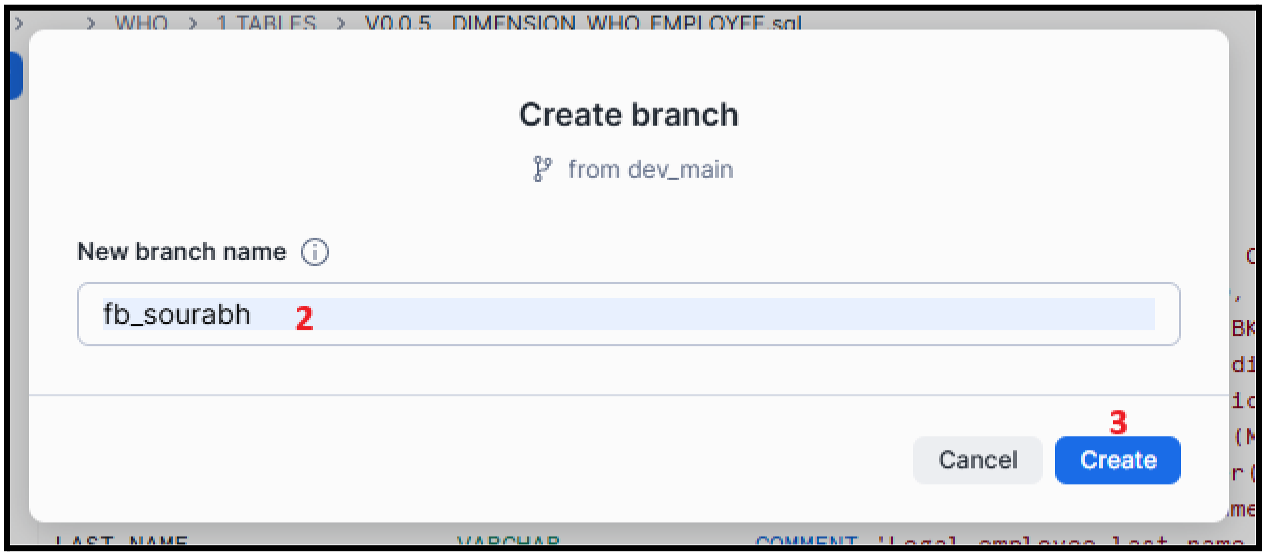
Give a new workspace name

select the API Integration created in the previous step

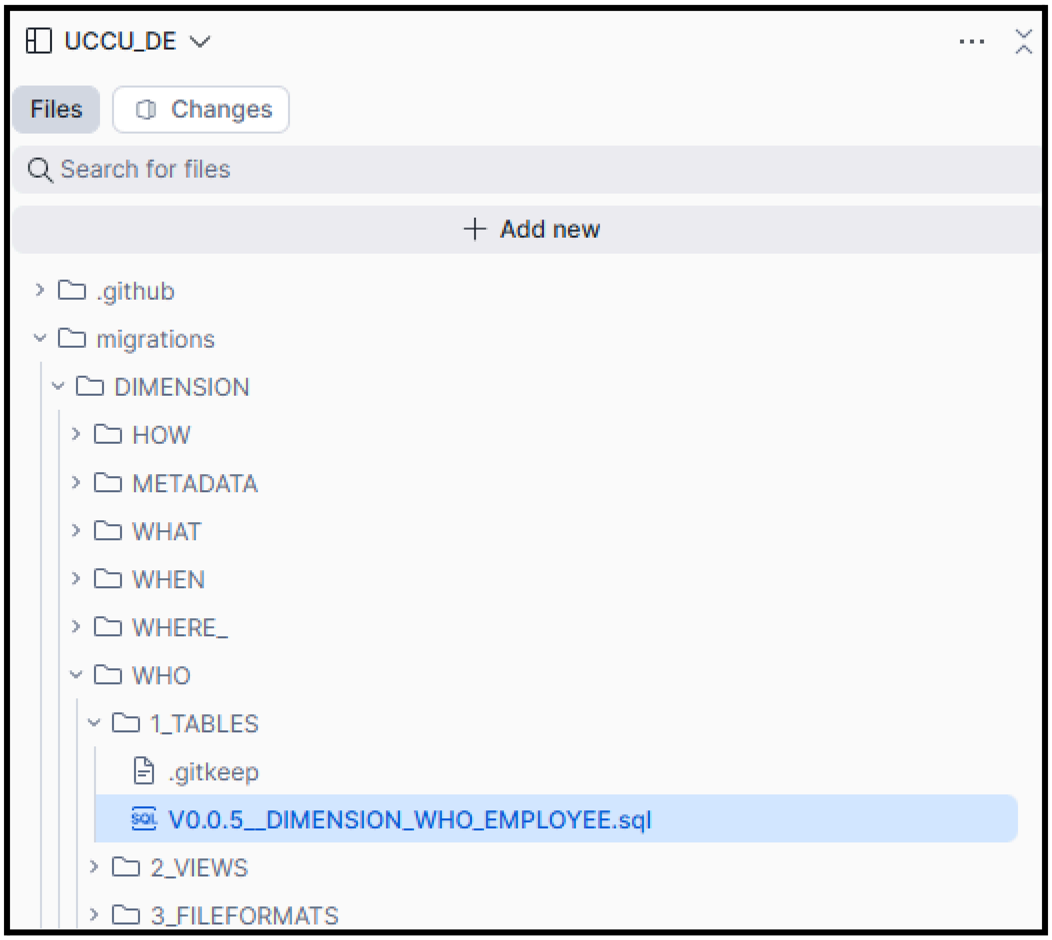
select the target database , schema and the secret created in the previous step

Step 5: Create a new branch(feature) from dev_main branch

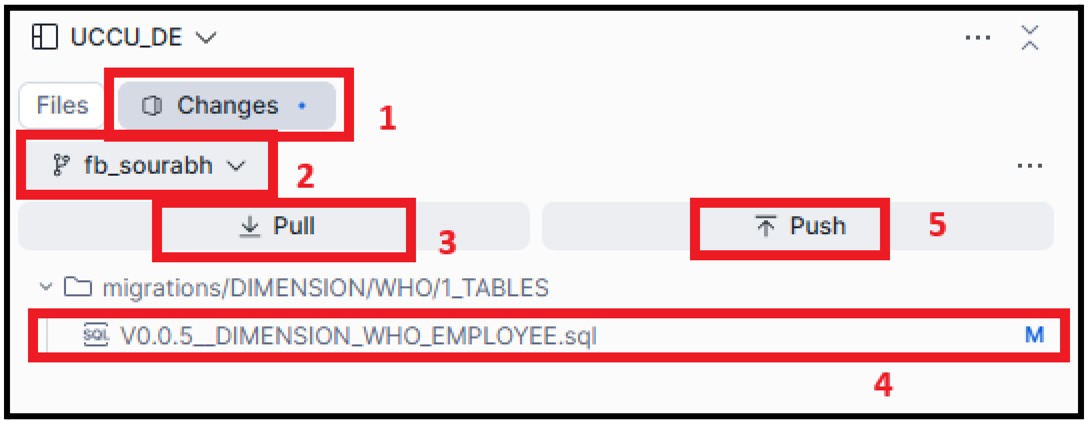




Step 6: Created a new File:



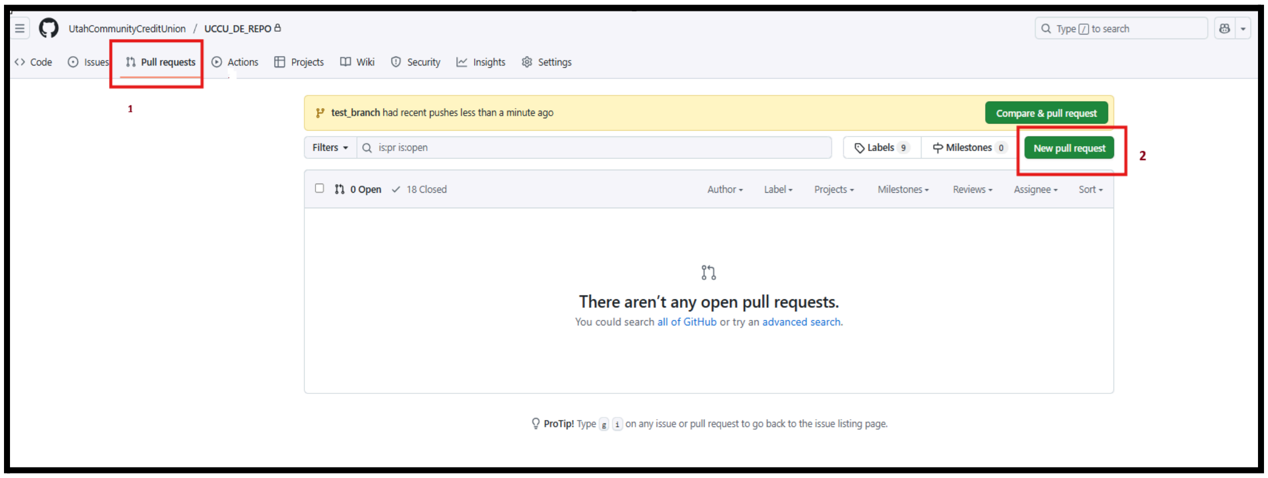
Step 7: Push the changes in the feature branch.

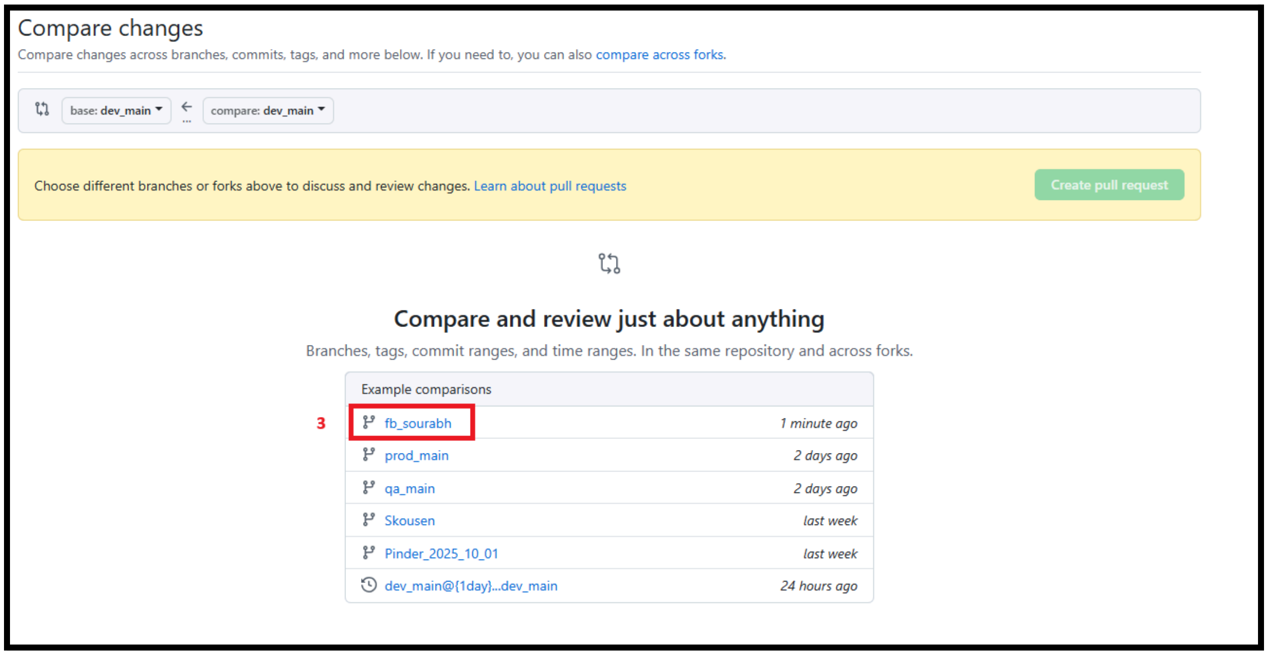

UCCU_DE
Files
Changes
1
fb_sourabh
2
Pull
3
Push
5
migrations/DIMENSION/WHO/1_TABLES
V0.0.5__DIMENSION_WHO_EMPLOYEE.sql
M
4

Create a pull request, review the code, and merge the PR:

When reviewing the code for altering the table, the reviewer must also check the original versioned file for the same object to ensure it is updated with the current changes ~~and comments as mentioned in the Notes section (#5) on page [number]. 7~~

Step 8: In GitHub, create a new pull request(PR)


UtahCommunityCreditUnion / UCCU_DE_REPO
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Type / to search
1
test_branch had recent pushes less than a minute ago
Compare & pull request
Filters
is:pr is:open
Labels 9
Milestones 0
New pull request
2
0 Open
18 Closed
Author
Label
Projects
Milestones
Reviews
Assignee
Sort
There aren't any open pull requests.
You could search all of GitHub or try an advanced search.
ProTip! Type g i on any issue or pull request to go back to the issue listing page.


Compare changes

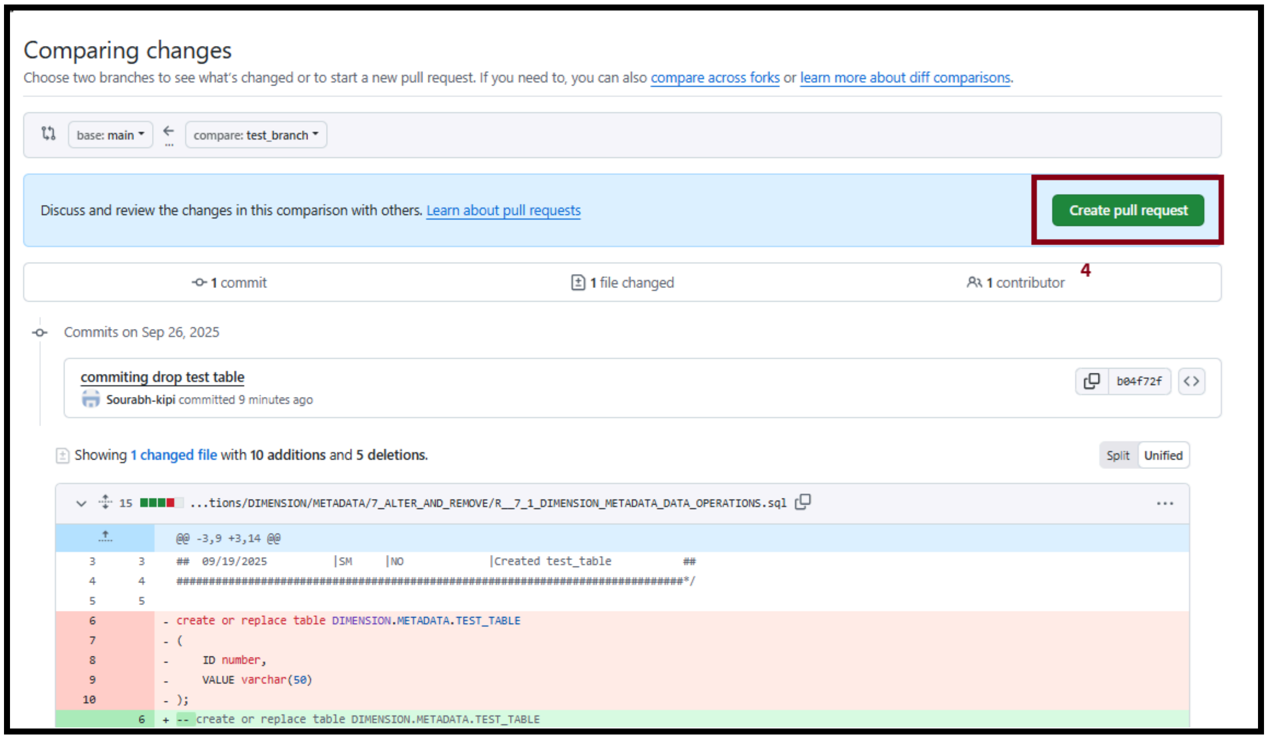
Compare changes across branches, commits, tags, and more below. If you need to, you can also compare across forks.

Choose different branches or forks above to discuss and review changes. Learn about pull requests

Compare and review just about anything

Branches, tags, commit ranges, and time ranges. In the same repository and across forks.

Example comparisons	
fb_sourabh	1 minute ago
prod_main	2 days ago
qa_main	2 days ago
Skousen	last week
Pinder_2025_10_01	last week
dev_main@{1day}...dev_main	24 hours ago



Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also compare across forks or learn more about diff comparisons.

base: main ← compare: test_branch

Discuss and review the changes in this comparison with others. Learn about pull requests

1 commit   1 file changed   1 contributor

Commits on Sep 26, 2025

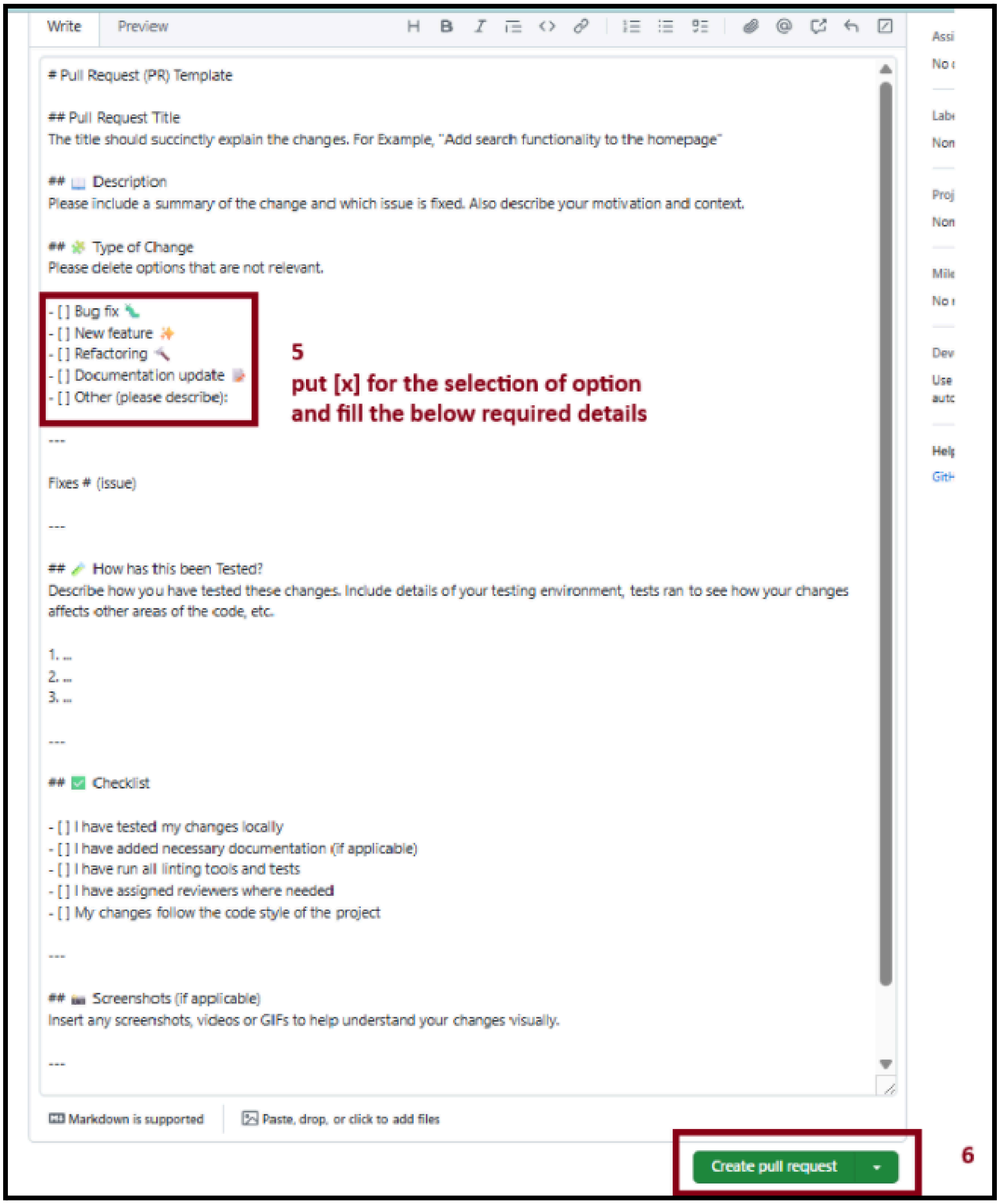
commiting drop test table
Sourabh-kipi committed 9 minutes ago   b04f72f

Showing 1 changed file with 10 additions and 5 deletions.

15 ...tions/DIMENSION/METADATA/7_ALTER_AND_REMOVE/R__7_1_DIMENSION_METADATA_DATA_OPERATIONS.sql

```
@@ -3,9 +3,14 @@
  ##  09/19/2025          |SM     |NO             |Created test_table          ##
  ###############################################################################*/

- create or replace table DIMENSION.METADATA.TEST_TABLE
- (
-     ID number,
-     VALUE varchar(50)
- );
+ --create or replace table DIMENSION.METADATA.TEST_TABLE
```

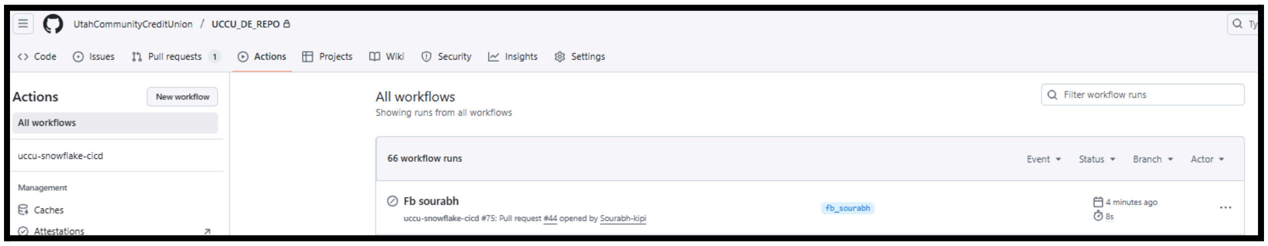
Step 9: Provide a pull request (PR) with the proper details of the changes made.



```
# Pull Request (PR) Template

## Pull Request Title
The title should succinctly explain the changes. For Example, "Add search functionality to the homepage"

## 📖 Description
Please include a summary of the change and which issue is fixed. Also describe your motivation and context.

## 🧩 Type of Change
Please delete options that are not relevant.

- [ ] Bug fix 🐛
- [ ] New feature ✨
- [ ] Refactoring 🔨
- [ ] Documentation update 📝
- [ ] Other (please describe):

---

Fixes # (issue)

---

## 🧪 How has this been Tested?
Describe how you have tested these changes. Include details of your testing environment, tests ran to see how your changes affects other areas of the code, etc.

1. ...
2. ...
3. ...

---

## ✅ Checklist

- [ ] I have tested my changes locally
- [ ] I have added necessary documentation (if applicable)
- [ ] I have run all linting tools and tests
- [ ] I have assigned reviewers where needed
- [ ] My changes follow the code style of the project

---

## 📷 Screenshots (if applicable)
Insert any screenshots, videos or GIFs to help understand your changes visually.

---
```

Write
Preview
Markdown is supported
Paste, drop, or click to add files
Create pull request
5
put [x] for the selection of option and fill the below required details
6

Step 10: After the merging of the PR (fb_sourabh to dev_main branch), the GitHub workflow will get triggered for the dev_main branch.



UtahCommunityCreditUnion / UCCU_DE_REPO

Code | Issues | Pull requests 1 | Actions | Projects | Wiki | Security | Insights | Settings

Actions — New workflow

All workflows

uccu-snowflake-cicd

Management

Caches

Attestations

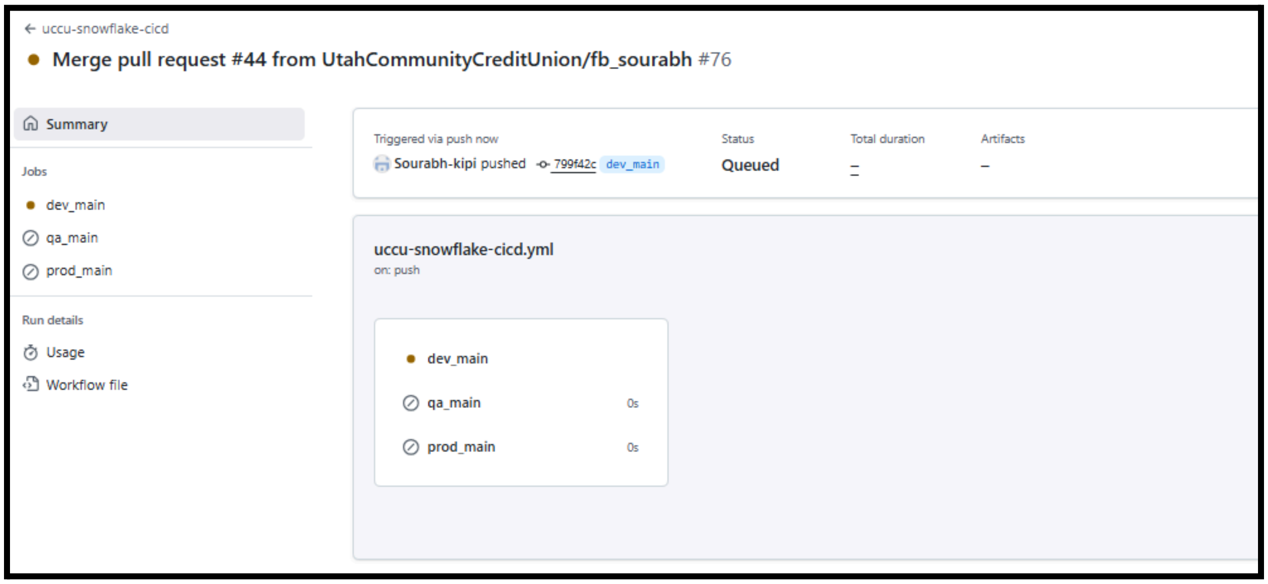
All workflows

Showing runs from all workflows

Filter workflow runs

66 workflow runs — Event | Status | Branch | Actor

Fb sourabh
uccu-snowflake-cicd #75: Pull request #44 opened by Sourabh-kipi — fb_sourabh — 4 minutes ago — 8s



← uccu-snowflake-cicd

Merge pull request #44 from UtahCommunityCreditUnion/fb_sourabh #76

Summary

Jobs

- dev_main
- qa_main
- prod_main

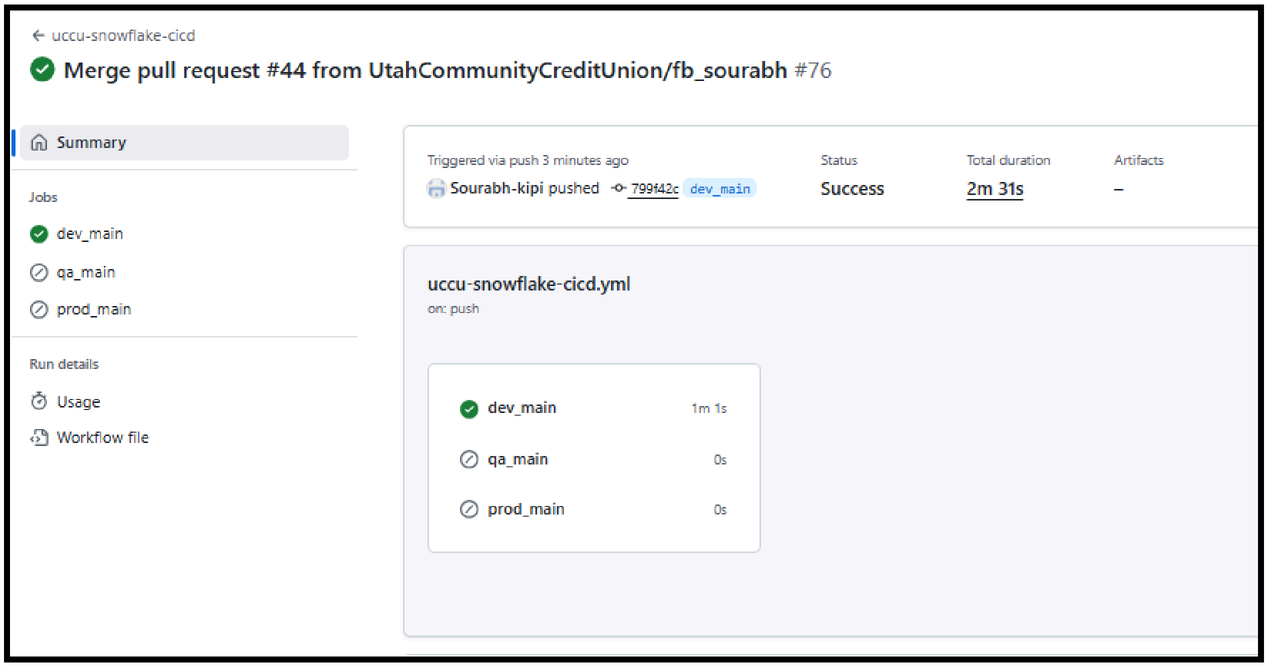
Run details

- Usage
- Workflow file

Triggered via push now	Status	Total duration	Artifacts
Sourabh-kipi pushed 799f42c dev_main	Queued	–	–

uccu-snowflake-cicd.yml
on: push

dev_main	
qa_main	0s
prod_main	0s


uccu-snowflake-cicd

Merge pull request #44 from UtahCommunityCreditUnion/fb_sourabh #76

Triggered via push 3 minutes ago — Sourabh-kipi pushed 799f42c dev_main

Status: Success

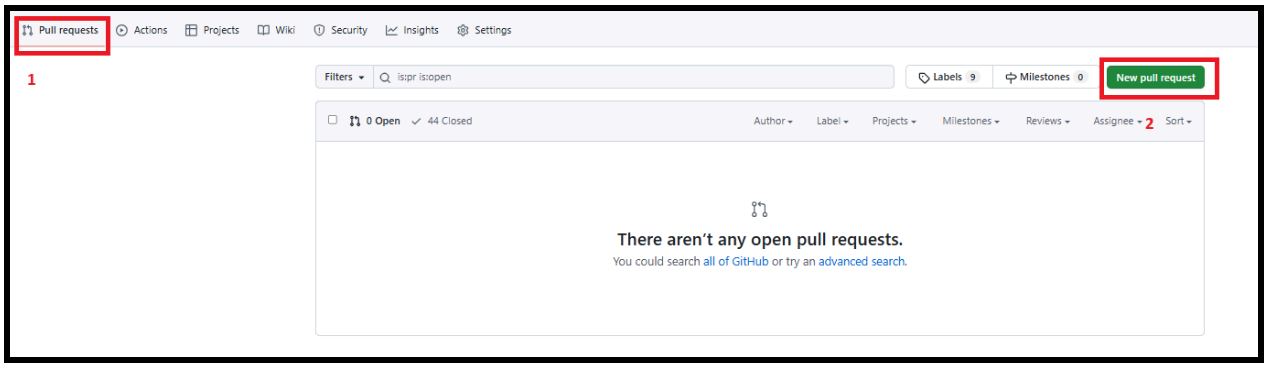
Total duration: 2m 31s

Artifacts: –

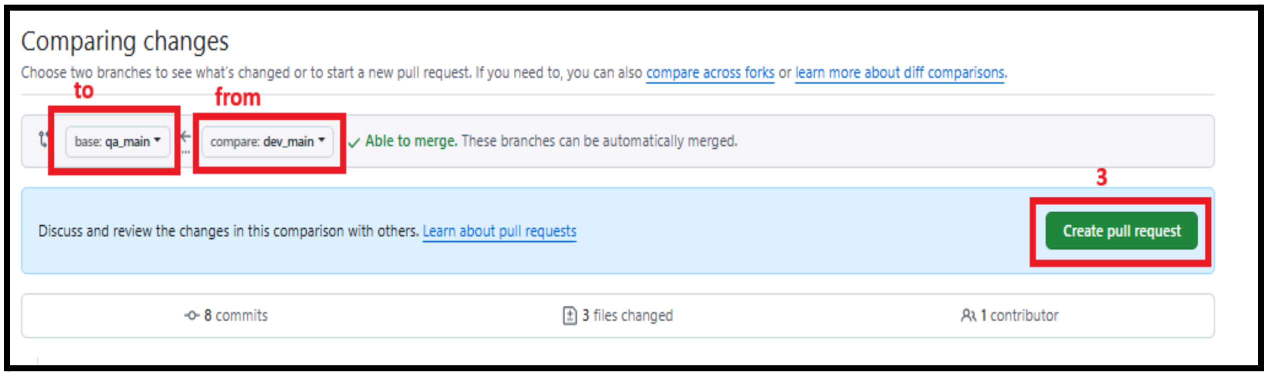
uccu-snowflake-cicd.yml
on: push

dev_main	1m 1s
qa_main	0s
prod_main	0s

Step 11: Pushing code from the dev_main branch to the qa_main branch.



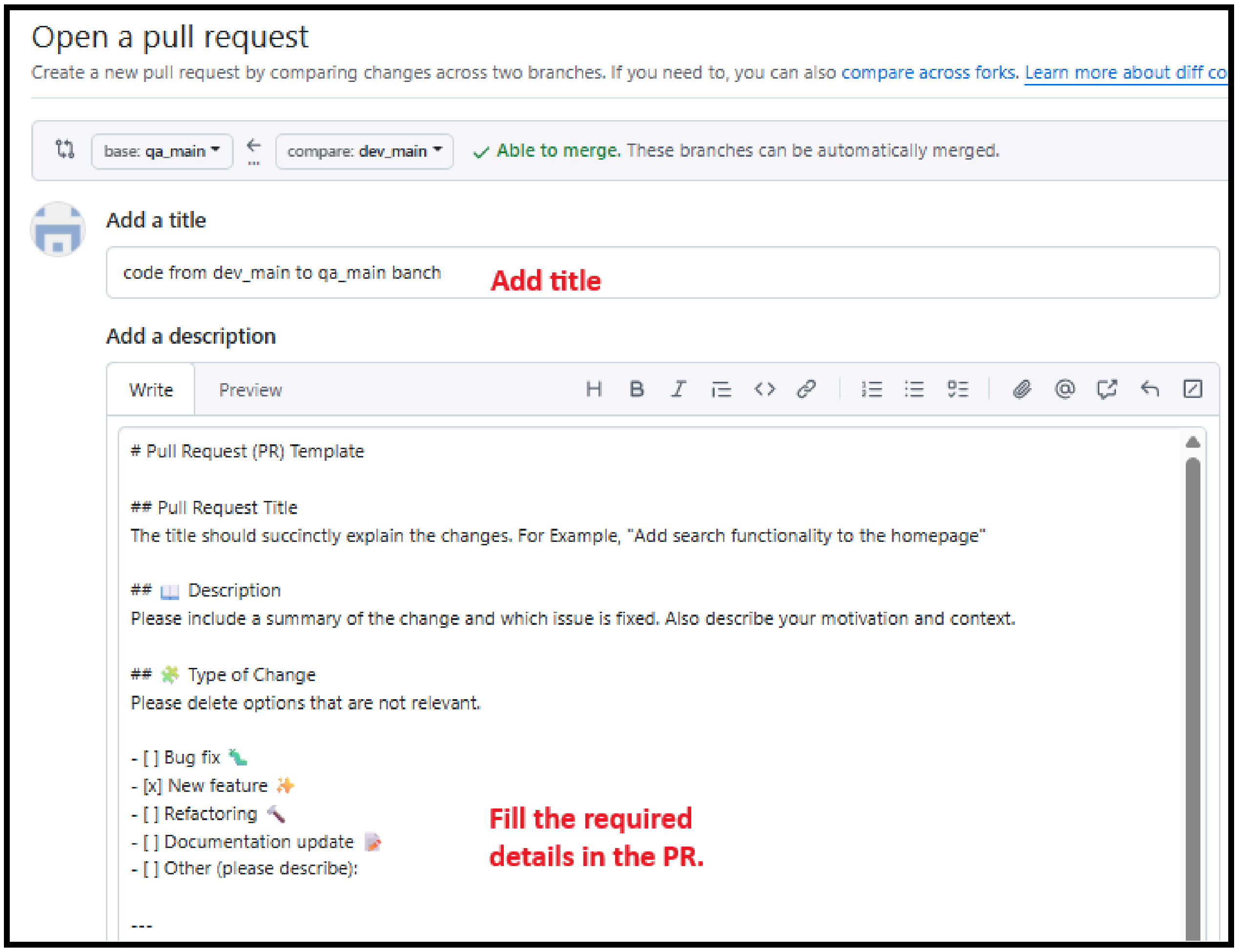
There aren't any open pull requests.
You could search all of GitHub or try an advanced search.


Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also compare across forks or learn more about diff comparisons.

✓ Able to merge. These branches can be automatically merged.

Discuss and review the changes in this comparison with others. Learn about pull requests



Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks. Learn more about diff co

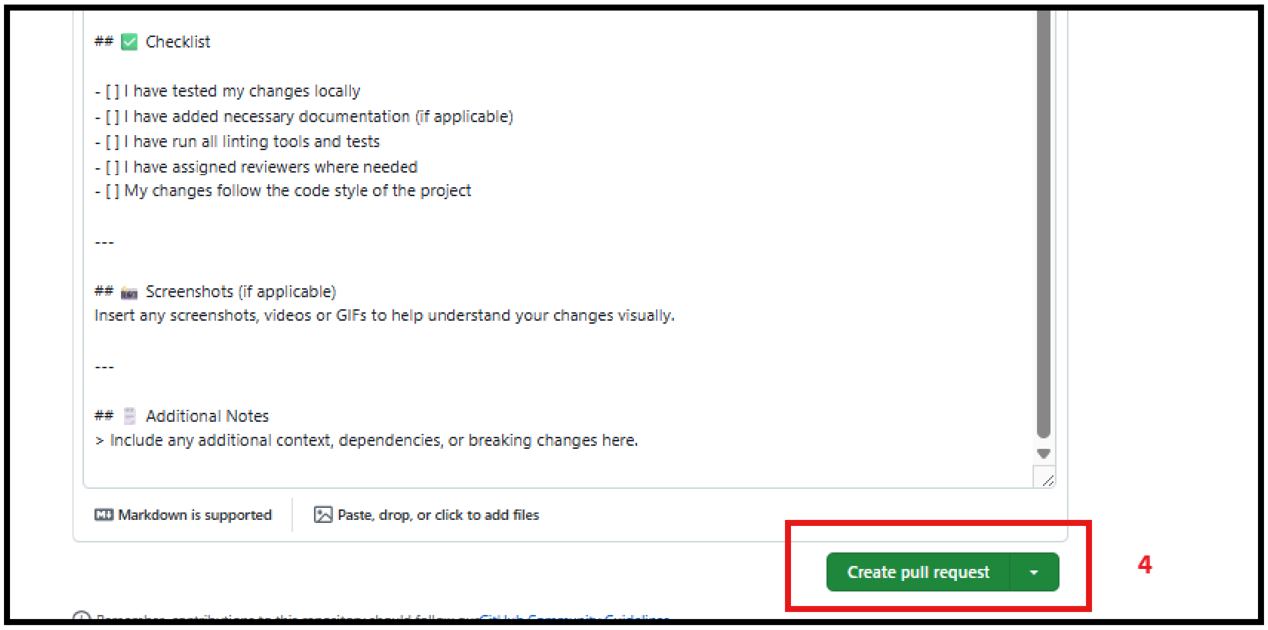
base: qa_main ← compare: dev_main ✓ Able to merge. These branches can be automatically merged.

Add a title

code from dev_main to qa_main banch

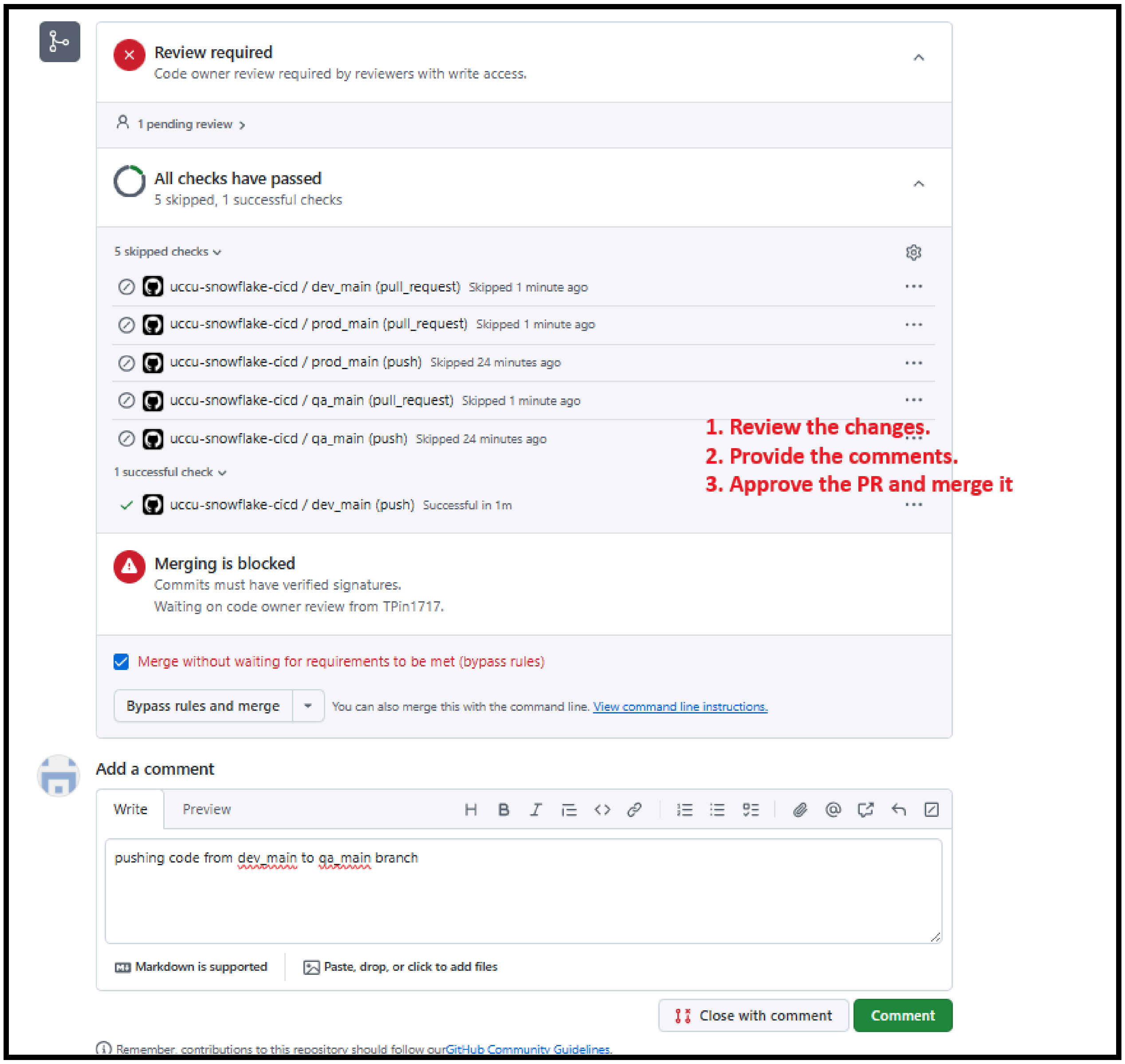
Add a description

```
# Pull Request (PR) Template

## Pull Request Title
The title should succinctly explain the changes. For Example, "Add search functionality to the homepage"

## 📖 Description
Please include a summary of the change and which issue is fixed. Also describe your motivation and context.

## 🧩 Type of Change
Please delete options that are not relevant.

- [ ] Bug fix 🐛
- [x] New feature ✨
- [ ] Refactoring 🔨
- [ ] Documentation update 📝
- [ ] Other (please describe):

---
```



```
## ✅ Checklist

- [ ] I have tested my changes locally
- [ ] I have added necessary documentation (if applicable)
- [ ] I have run all linting tools and tests
- [ ] I have assigned reviewers where needed
- [ ] My changes follow the code style of the project

---

## 📷 Screenshots (if applicable)
Insert any screenshots, videos or GIFs to help understand your changes visually.

---

## 🗒️ Additional Notes
> Include any additional context, dependencies, or breaking changes here.
```

4


Review required
Code owner review required by reviewers with write access.
1 pending review
All checks have passed
5 skipped, 1 successful checks
5 skipped checks
uccu-snowflake-cicd / dev_main (pull_request) Skipped 1 minute ago
uccu-snowflake-cicd / prod_main (pull_request) Skipped 1 minute ago
uccu-snowflake-cicd / prod_main (push) Skipped 24 minutes ago
uccu-snowflake-cicd / qa_main (pull_request) Skipped 1 minute ago
uccu-snowflake-cicd / qa_main (push) Skipped 24 minutes ago
1 successful check
uccu-snowflake-cicd / dev_main (push) Successful in 1m

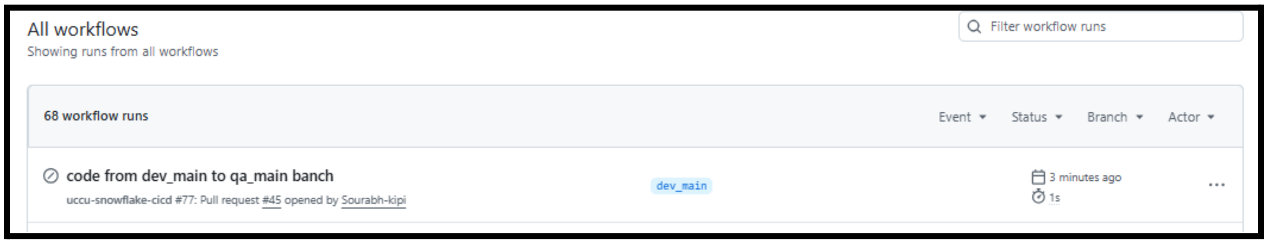
1. Review the changes.
2. Provide the comments.
3. Approve the PR and merge it

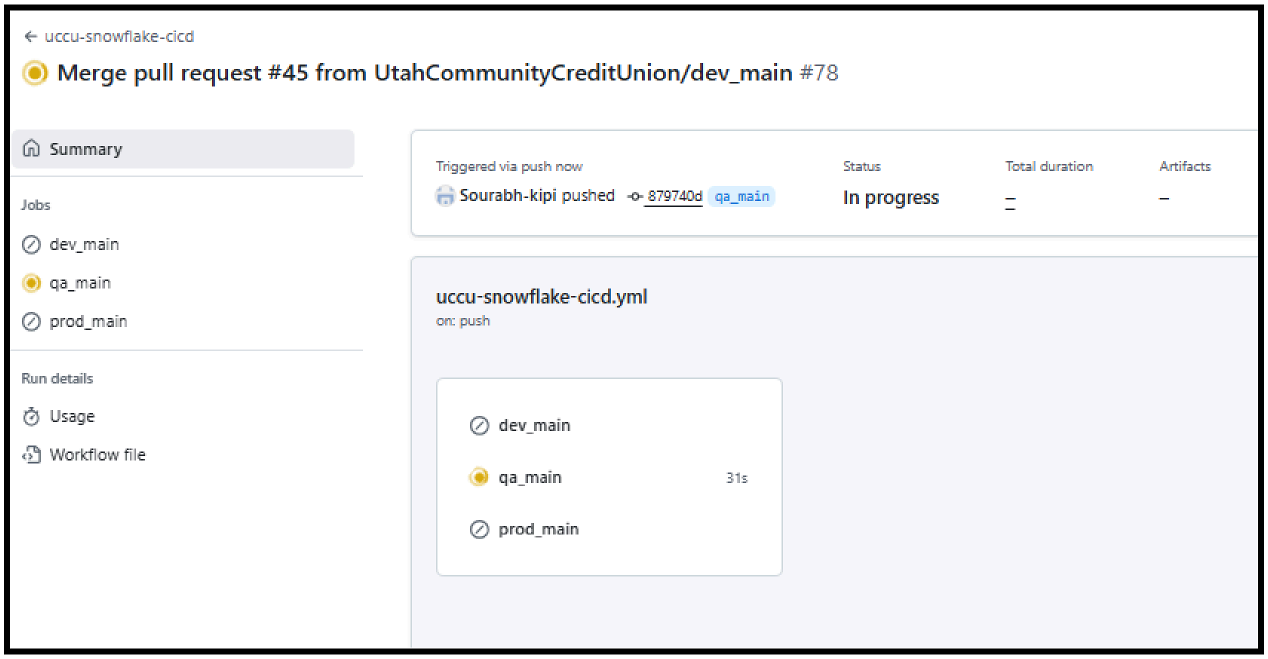
Merging is blocked
Commits must have verified signatures.
Waiting on code owner review from TPin1717.

Merge without waiting for requirements to be met (bypass rules)
Bypass rules and merge
You can also merge this with the command line. View command line instructions.

Add a comment
pushing code from dev_main to qa_main branch
Markdown is supported
Paste, drop, or click to add files
Close with comment
Comment
Remember, contributions to this repository should follow our GitHub Community Guidelines.

After merging the PR, the code will be pushed to the qa_main branch, and then the workflow action will get triggered.

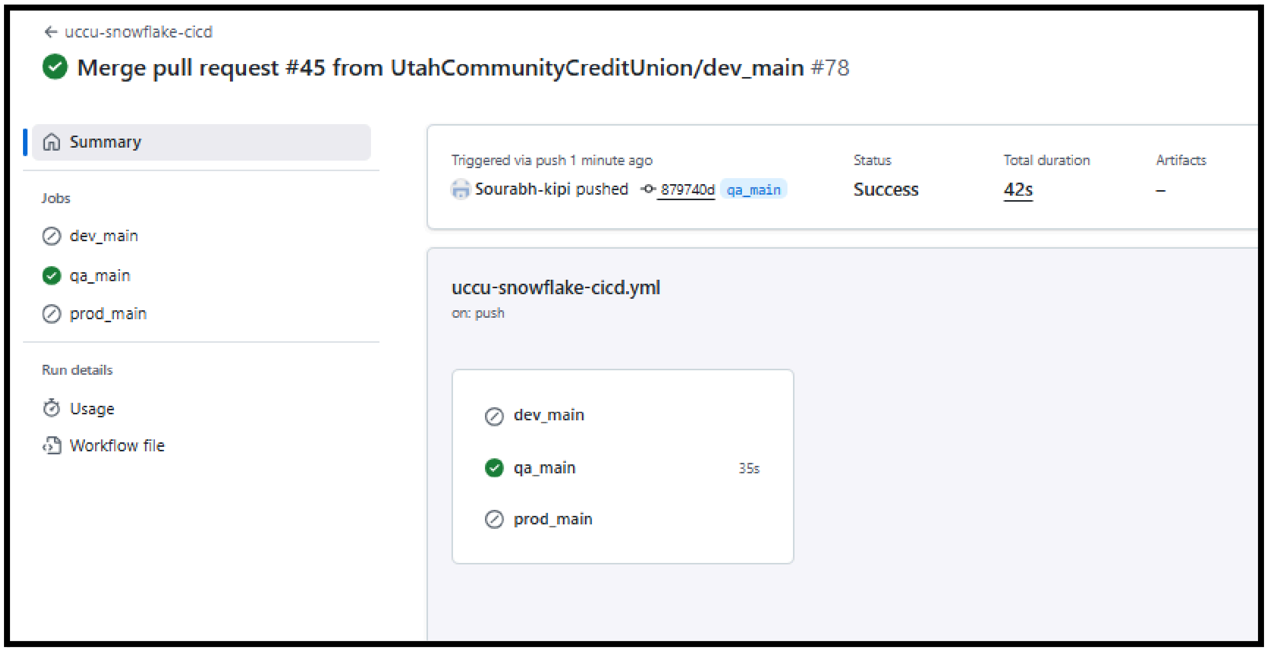

All workflows
Showing runs from all workflows
68 workflow runs
Event Status Branch Actor
code from dev_main to qa_main banch
uccu-snowflake-cicd #77: Pull request #45 opened by Sourabh-kipi
dev_main
3 minutes ago
1s


← uccu-snowflake-cicd

Merge pull request #45 from UtahCommunityCreditUnion/dev_main #78

Triggered via push now	Status	Total duration	Artifacts
Sourabh-kipi pushed 879740d qa_main	In progress	–	–

uccu-snowflake-cicd.yml
on: push


← uccu-snowflake-cicd

Merge pull request #45 from UtahCommunityCreditUnion/dev_main #78

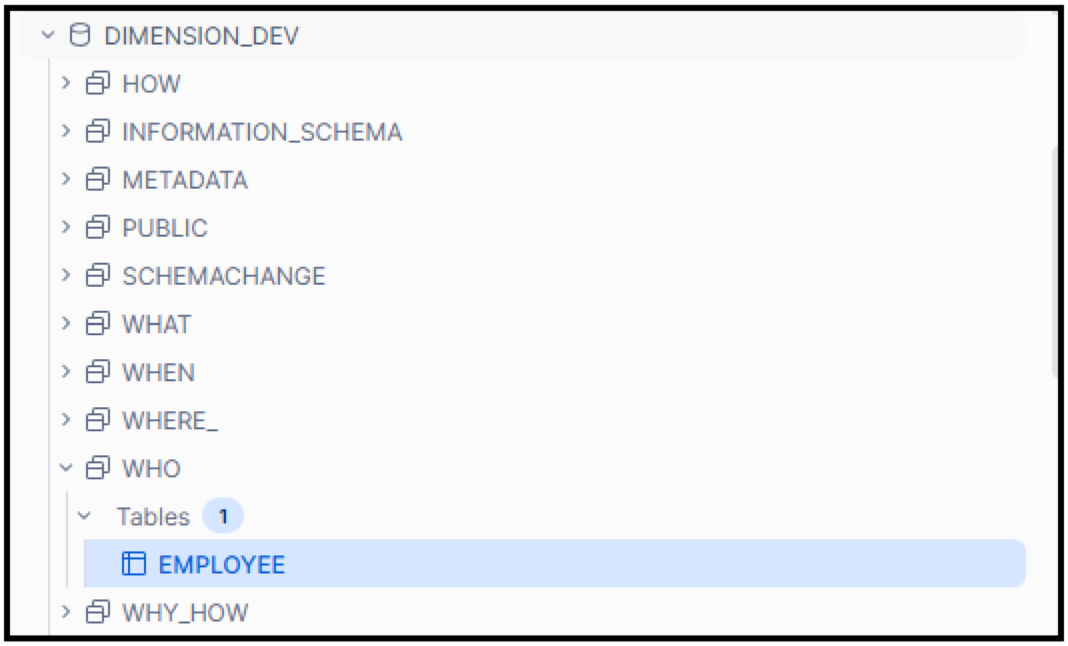
Triggered via push 1 minute ago	Status	Total duration	Artifacts
Sourabh-kipi pushed 879740d qa_main	Success	42s	–

uccu-snowflake-cicd.yml
on: push

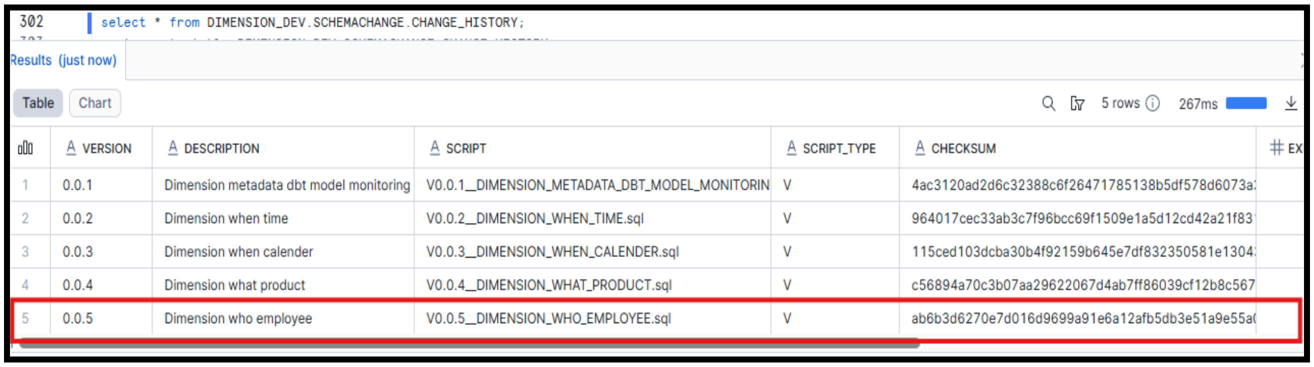
NOTE: To push the changes in the Prod Env, follow **Step 11** (here it would be done from **qa_main** to **prod_main**)

Step 12: After successful execution of the workflow action, the table will be created in Snowflake, and an entry will be made in the CHANGE_HISTORY table:

DIMENSION_DEV:



- DIMENSION_DEV
  - HOW
  - INFORMATION_SCHEMA
  - METADATA
  - PUBLIC
  - SCHEMACHANGE
  - WHAT
  - WHEN
  - WHERE_
  - WHO
    - Tables 1
      - EMPLOYEE
  - WHY_HOW



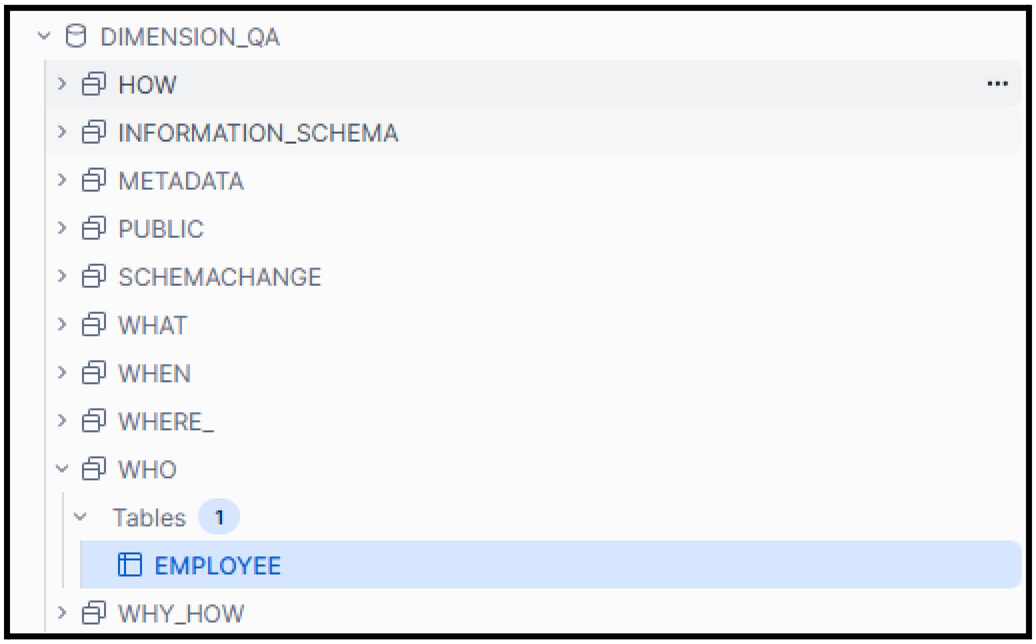
```
select * from DIMENSION_DEV.SCHEMACHANGE.CHANGE_HISTORY;
```

Results (just now)

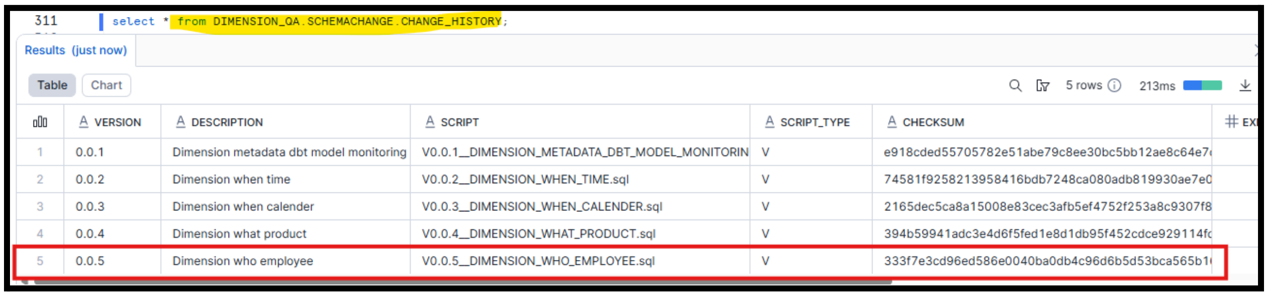
Table | Chart | 5 rows | 267ms

	VERSION	DESCRIPTION	SCRIPT	SCRIPT_TYPE	CHECKSUM	EX
1	0.0.1	Dimension metadata dbt model monitoring	V0.0.1__DIMENSION_METADATA_DBT_MODEL_MONITORIN	V	4ac3120ad2d6c32388c6f26471785138b5df578d6073a	
2	0.0.2	Dimension when time	V0.0.2__DIMENSION_WHEN_TIME.sql	V	964017cec33ab3c7f96bcc69f1509e1a5d12cd42a21f83	
3	0.0.3	Dimension when calender	V0.0.3__DIMENSION_WHEN_CALENDER.sql	V	115ced103dcba30b4f92159b645e7df832350581e1304	
4	0.0.4	Dimension what product	V0.0.4__DIMENSION_WHAT_PRODUCT.sql	V	c56894a70c3b07aa29622067d4ab7ff86039cf12b8c567	
5	0.0.5	Dimension who employee	V0.0.5__DIMENSION_WHO_EMPLOYEE.sql	V	ab6b3d6270e7d016d9699a91e6a12afb5db3e51a9e55a	

DIMENSION_QA:



- DIMENSION_QA
  - HOW
  - INFORMATION_SCHEMA
  - METADATA
  - PUBLIC
  - SCHEMACHANGE
  - WHAT
  - WHEN
  - WHERE_
  - WHO
    - Tables 1
      - EMPLOYEE
  - WHY_HOW



```
select * from DIMENSION_QA.SCHEMACHANGE.CHANGE_HISTORY;
```

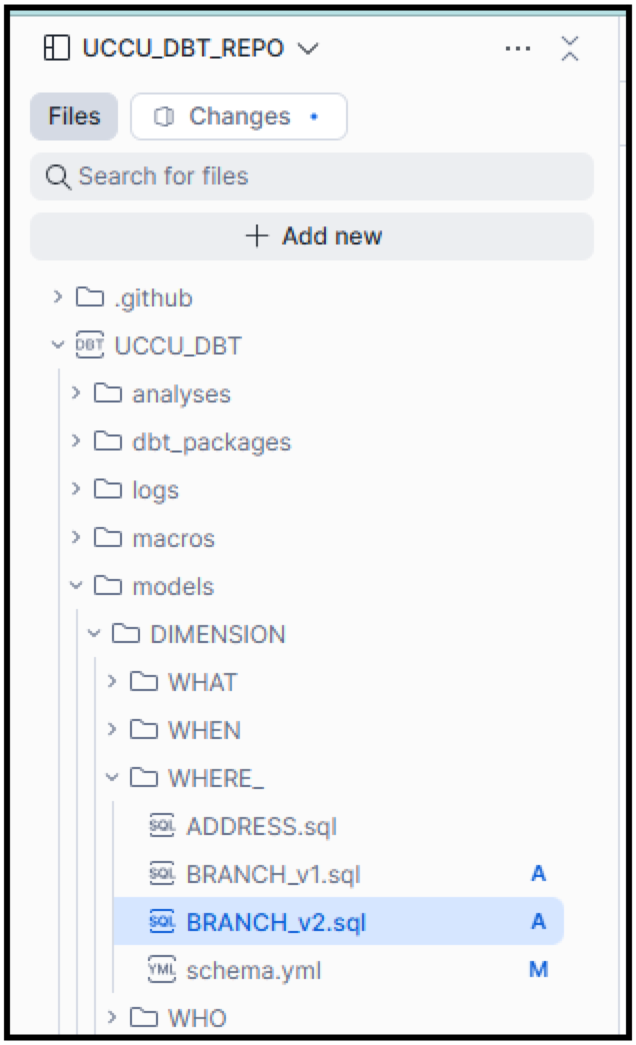
Results (just now)

Table Chart

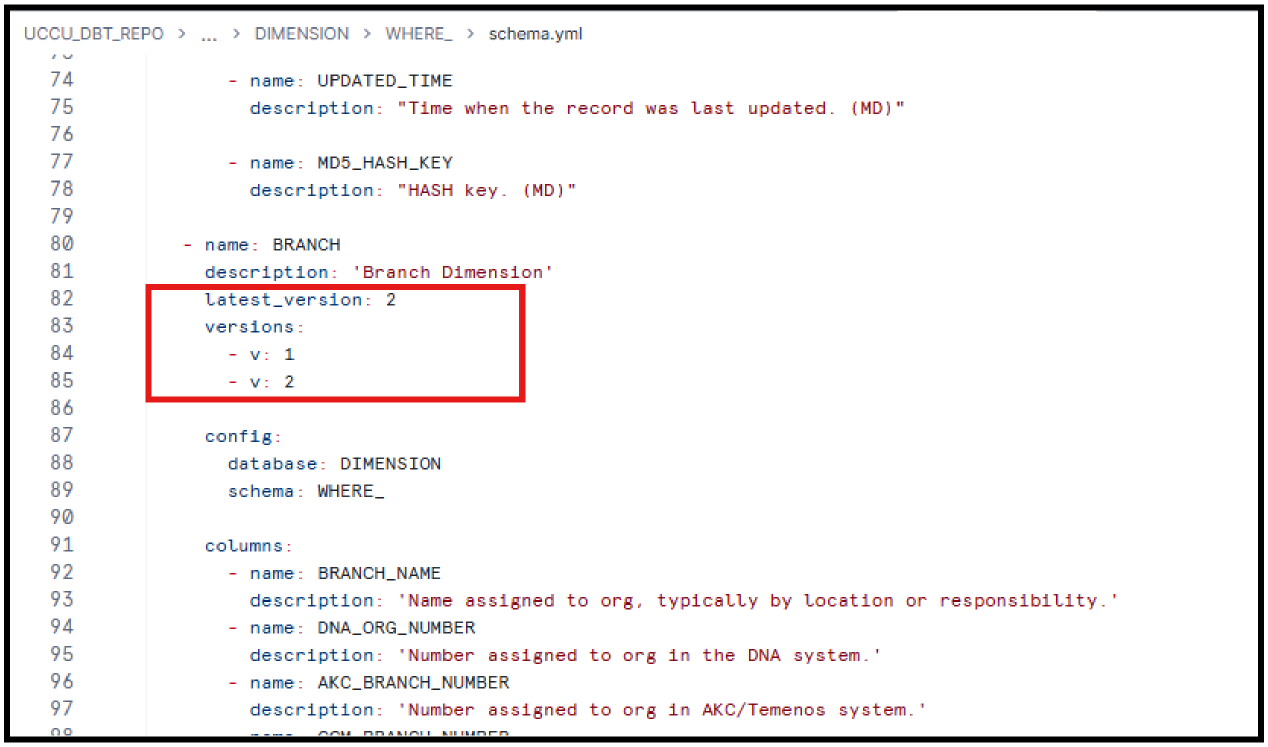
5 rows 213ms

	VERSION	DESCRIPTION	SCRIPT	SCRIPT_TYPE	CHECKSUM	EX
1	0.0.1	Dimension metadata dbt model monitoring	V0.0.1__DIMENSION_METADATA_DBT_MODEL_MONITORIN	V	e918cded55705782e51abe79c8ee30bc5bb12ae8c64e7	
2	0.0.2	Dimension when time	V0.0.2__DIMENSION_WHEN_TIME.sql	V	74581f9258213958416bdb7248ca080adb819930ae7e0	
3	0.0.3	Dimension when calender	V0.0.3__DIMENSION_WHEN_CALENDER.sql	V	2165dec5ca8a15008e83cec3afb5ef4752f253a8c9307f8	
4	0.0.4	Dimension what product	V0.0.4__DIMENSION_WHAT_PRODUCT.sql	V	394b59941adc3e4d6f5fed1e8d1db95f452cdce929114f	
5	0.0.5	Dimension who employee	V0.0.5__DIMENSION_WHO_EMPLOYEE.sql	V	333f7e3cd96ed586e0040ba0db4c96d6b5d53bca565b1	

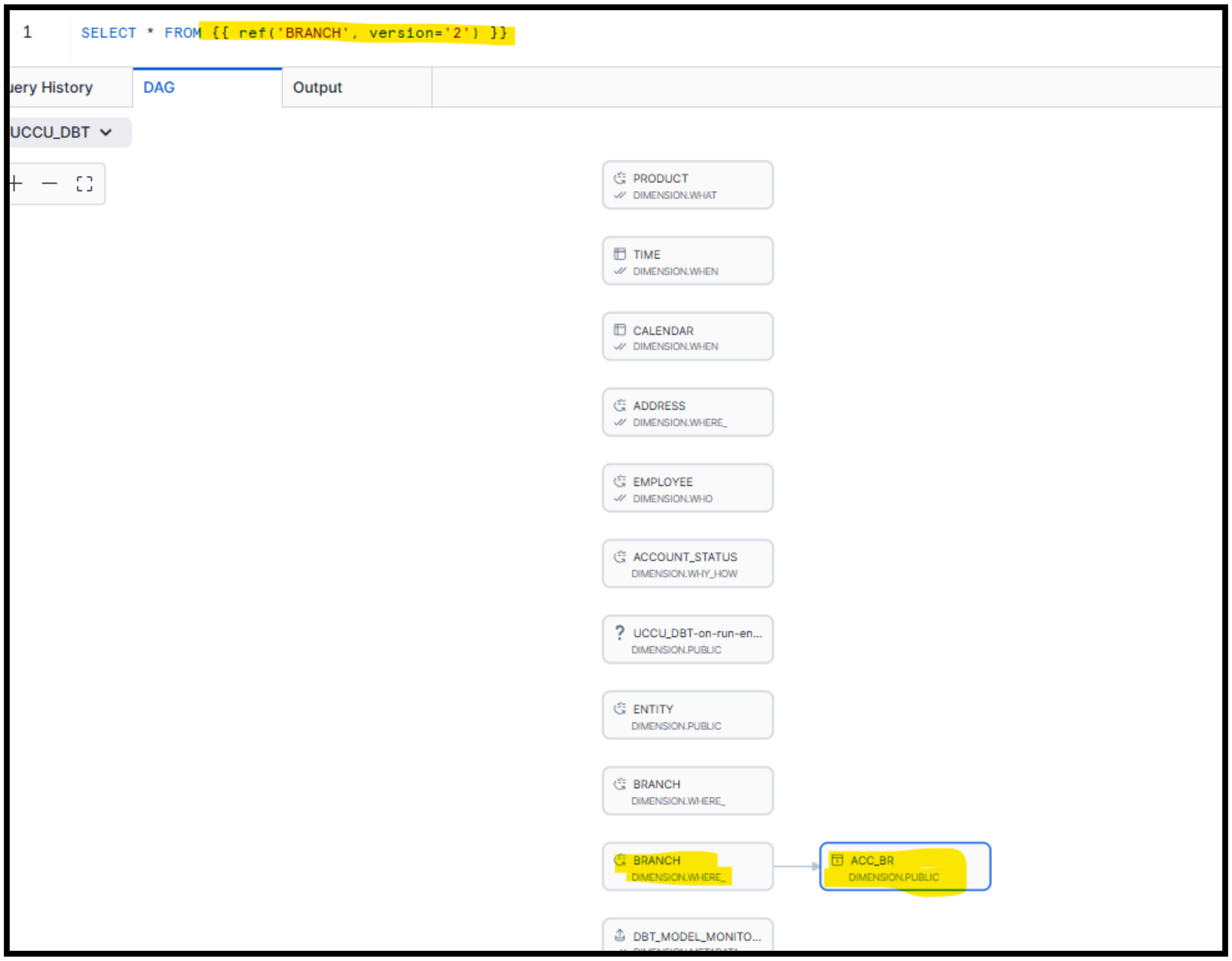
DBT Model Versioning:



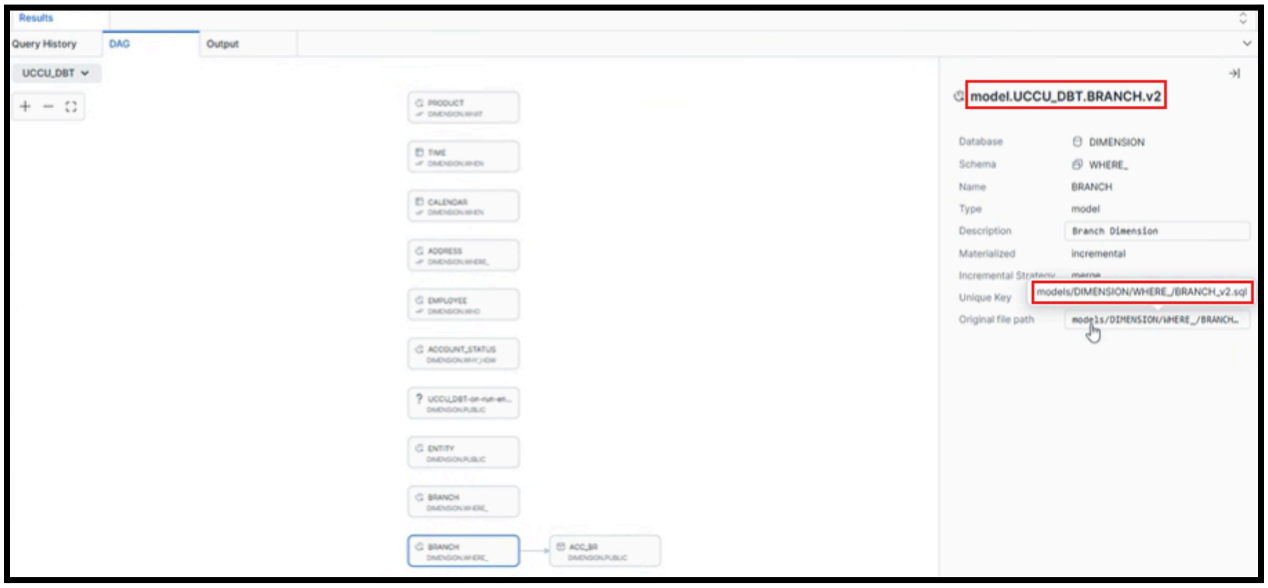
If **latest_version** is not specified for a versioned model, it defaults to the largest version. In this case, the **latest_version** is explicitly set to **2**.


UCCU_DBT_REPO > ... > DIMENSION > WHERE_ > schema.yml

```yaml
          - name: UPDATED_TIME
            description: "Time when the record was last updated. (MD)"

          - name: MD5_HASH_KEY
            description: "HASH key. (MD)"

      - name: BRANCH
        description: 'Branch Dimension'
        latest_version: 2
        versions:
          - v: 1
          - v: 2

        config:
          database: DIMENSION
          schema: WHERE_

        columns:
          - name: BRANCH_NAME
            description: 'Name assigned to org, typically by location or responsibility.'
          - name: DNA_ORG_NUMBER
            description: 'Number assigned to org in the DNA system.'
          - name: AKC_BRANCH_NUMBER
            description: 'Number assigned to org in AKC/Temenos system.'
```



```
SELECT * FROM {{ ref('BRANCH', version='2') }}
```



model.UCCU_DBT.BRANCH.v2

Database	DIMENSION
Schema	WHERE_
Name	BRANCH
Type	model
Description	Branch Dimension
Materialized	incremental
Incremental Strategy	merge
Unique Key	models/DIMENSION/WHERE_/BRANCH_v2.sql
Original file path	models/DIMENSION/WHERE_/BRANCH…