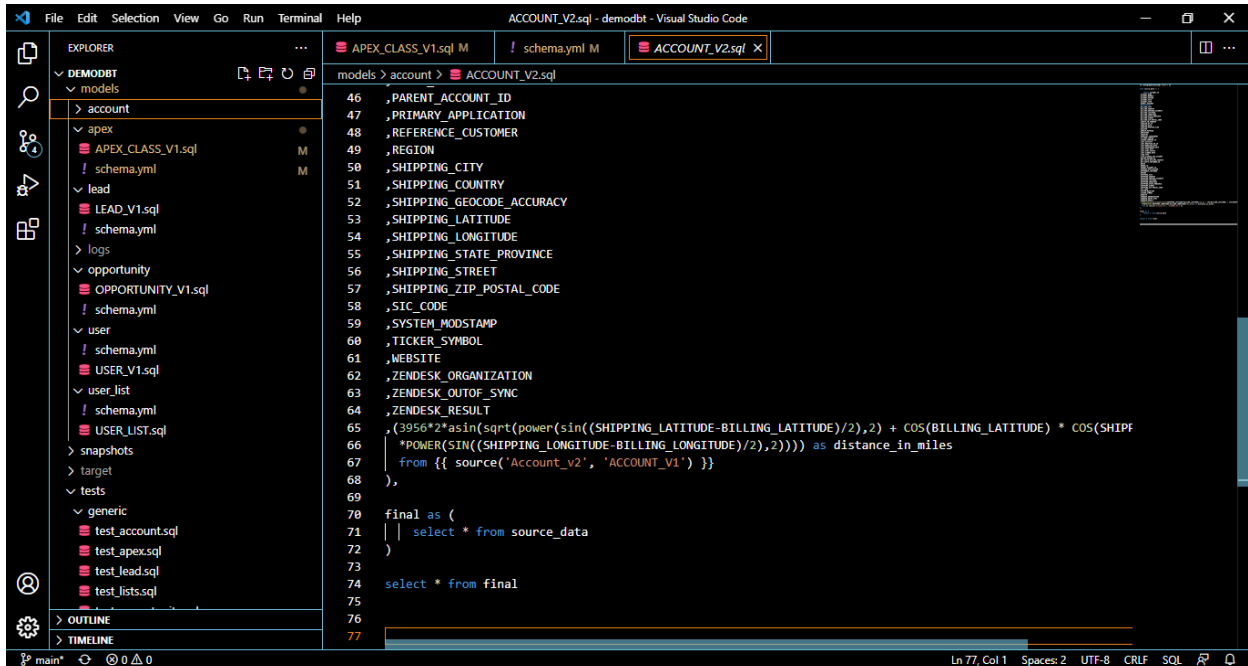


DBT core is used for performing transformation as it is open source, and it has been connected with the GITLAB repository as well. The destination for DBT transformed tables and views is TRANSFORMATION schema in Data Lake PC\_FIVETRAN\_DB. Six tables are transformed using DBT, for 6 six models created generic test cases are created.

- DBT transformation model applied on table account



```
46 ,PARENT_ACCOUNT_ID
47 ,PRIMARY_APPLICATION
48 ,REFERENCE_CUSTOMER
49 ,REGION
50 ,SHIPPING_CITY
51 ,SHIPPING_COUNTRY
52 ,SHIPPING_GEOCODE_ACCURACY
53 ,SHIPPING_LATITUDE
54 ,SHIPPING_LONGITUDE
55 ,SHIPPING_STATE_PROVINCE
56 ,SHIPPING_STREET
57 ,SHIPPING_ZIP_POSTAL_CODE
58 ,SIC_CODE
59 ,SYSTEM_MOODSTAMP
60 ,TICKER_SYMBOL
61 ,WEBSITE
62 ,ZENDESK_ORGANIZATION
63 ,ZENDESK_OUTOF_SYNC
64 ,ZENDESK_RESULT
65 ,(3956*2*asin(sqrt(power(sin((SHIPPING_LATITUDE-BILLING_LATITUDE)/2),2) + COS(BILLING_LATITUDE) * COS(SHIP
66 *POWER(SIN((SHIPPING_LONGITUDE-BILLING_LONGITUDE)/2),2)))) as distance_in_miles
67 from {{ source('Account_v2', 'ACCOUNT_V1') }}
68 ),
69
70 final as (
71 | select * from source_data
72 )
73
74 select * from final
75
76
77
```

- generic test case to validate the model

The screenshot shows the Visual Studio Code interface with a project named 'test\_user.sql - demodb - Visual Studio Code'. The Explorer panel on the left shows a file tree with folders like 'DEMO', 'lead', 'opportunity', 'user', and 'tests'. The 'tests' folder is expanded, showing a 'generic' subfolder with a file 'test\_user.sql'. The main editor displays the content of 'test\_user.sql', which is a generic test case for validating a model. The test case is written in SQL and uses the 'generic' test runner. It defines a 'validation' query that selects the 'active\_status' from the 'model' table. It then defines a 'validation\_errors' query that selects the 'active\_status' from the 'validation' query where the 'active\_status' is not in ('TRUE', 'FALSE'). The test case ends with 'select \* from validation\_errors' and 'endtest %'.

```

1  {% test user(model, column_name) %}
2
3  with validation as (
4
5      select
6          {{ column_name }} as active_status
7      from {{ model }}
8
9  )
10
11
12  validation_errors as (
13
14      select
15          active_status
16      from validation
17      where active_status not in ('TRUE','FALSE')
18
19  )
20
21
22  select *
23  from validation_errors
24
25  {% endtest %}

```

This is the screenshot ,which shows all test cases have been passed

The screenshot shows the Visual Studio Code interface with a project named 'test\_user.sql - demodb - Visual Studio Code'. The Explorer panel on the left shows a file tree with folders like 'account', 'apex', 'lead', 'opportunity', 'user', and 'tests'. The 'tests' folder is expanded, showing a 'generic' subfolder with a file 'test\_user.sql'. The main editor displays the content of 'test\_user.sql', which is a generic test case for validating a model. The test case is written in SQL and uses the 'generic' test runner. It defines a 'validation' query that selects the 'active\_status' from the 'model' table. It then defines a 'validation\_errors' query that selects the 'active\_status' from the 'validation' query where the 'active\_status' is not in ('TRUE', 'FALSE'). The test case ends with 'select \* from validation\_errors' and 'endtest %'.

```

1  {% test user(model, column_name) %}
2
3  with validation as (
4
5      select
6          {{ column_name }} as active_status
7      from {{ model }}
8
9  )
10
11
12  validation_errors as (
13
14      select
15          active_status
16      from validation
17      where active_status not in ('TRUE','FALSE')
18
19  )
20
21
22  select *
23  from validation_errors
24
25  {% endtest %}

```

The OUTPUT panel shows the results of the test run. It indicates that 6 models, 6 tests, 0 snapshots, 0 analyses, 185 macros, 0 operations, 0 seed files, 6 sources, 0 exposures, and 0 metrics were found. The test run was completed successfully in 4.31s. The output also shows the status of each test case, with all tests passing.

```

07:39:47 Found 6 models, 6 tests, 0 snapshots, 0 analyses, 185 macros, 0 operations, 0 seed files, 6 sources, 0 exposures, 0 metrics
07:39:47
07:39:49 Concurrency: 10 threads (target='dev')
07:39:49
07:39:49 1 of 6 START test source_account Account_table ACCOUNT_ANNUAL_REVENUE..... [RUN]
07:39:49 2 of 6 START test source_apex Apex_table APEX_CLASS_IS_VALID..... [RUN]
07:39:49 3 of 6 START test source_lead LEAD_TABLE LEAD_LEAD_ID..... [RUN]
07:39:49 4 of 6 START test source_lists USER_LIST USER_LIST_VIEW_CREATION_SORT_ORDER..... [RUN]
07:39:49 5 of 6 START test source_opportunity Opportunity_table OPPORTUNITY_ID..... [RUN]
07:39:49 6 of 6 START test source_user User_table USER_ACTIVE..... [RUN]
07:39:50 4 of 6 PASS source_lists USER_LIST USER_LIST_VIEW_CREATION_SORT_ORDER..... [PASS in 1.74s]
07:39:50 3 of 6 PASS source_lead LEAD_TABLE LEAD_LEAD_ID..... [PASS in 1.76s]
07:39:50 2 of 6 PASS source_apex Apex_table APEX_CLASS_IS_VALID..... [PASS in 1.81s]
07:39:50 1 of 6 PASS source_account Account_table ACCOUNT_ANNUAL_REVENUE..... [PASS in 1.87s]
07:39:51 5 of 6 PASS source_opportunity Opportunity_table OPPORTUNITY_ID..... [PASS in 2.56s]
07:39:51 6 of 6 PASS source_user User_table USER_ACTIVE..... [PASS in 2.75s]
07:39:51
07:39:51 Finished running 6 tests in 4.31s.
07:39:51
07:39:51 Completed successfully
07:39:51
07:39:51 Done. PASS=6 WARN=0 ERROR=0 SKIP=0 TOTAL=6
PS C:\Users\yuktharv\Documents\DBT\models>

```