HOMEWORK – 7

1. Create a dbt project with snowflake connector (1 pt)

```
Administrator: Command Prompt
       https://community.getdbt.com/
Happy modeling!
22:49:55 Setting up your profile.
Which database would you like to use?
[1] snowflake
 (Don't see the one you want? https://docs.getdbt.com/docs/available-adapters)
Enter a number: 1
{\tt D: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ Lib \ site-packages \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ ps: VEDA \ Python-Installation \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ ps: VEDA \ Python-Installation \ ps: \ snowflake \ connector \ options.} \\ {\tt ps: VEDA \ Python-Installation \ ps: \ ps:
version of 'pyarrow' installed (19.0.1), please install a version that adheres to: 'pyarrow<19.0.0; extra == "pandas"
     warn_incompatible_dep(
account (https://<this_value>.snowflakecomputing.com): sfedu02-ksb65579 user (dev username): CRICKET
[1] password
[2] keypair
[3] sso
Desired authentication type option (enter a number): 1
password (dev password):
role (dev role): TRAINING_ROLE
warehouse (warehouse name): CRICKET_QUERY_WH
database (default database that dbt will build objects in): USER_DB_CRICKET
schema (default schema that dbt will build objects in): analytics
threads (1 or more) [1]:

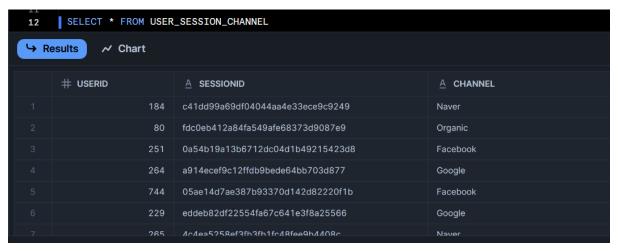
22:53:53 Profile build_mau written to C:\Users\VEDA\.dbt\profiles.yml using target's profile_template.yml and your supp lied values. Run 'dbt debug' to validate the connection.
 C:\Windows\System32>_
```

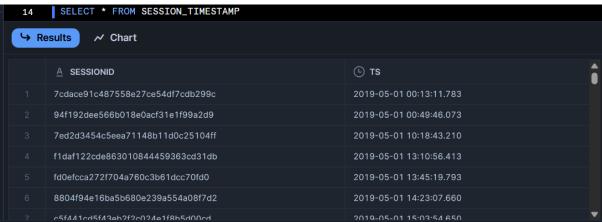
2. Set up Input models (2pt)

1. Input tables should be built as CTE

```
C:\Windows\System32\build_mau\models>dbt run
23:39:18 Running with dbt=1.9.4
D:\VEDA\Python-Installation\Lib\site-packages\snowflake\connector\options.py:108: UserWarning: You have an incompatible
version of 'pyarrow' installed (19.0.1), please install a version that adheres to: 'pyarrow<19.0.0; extra == "pandas" warn_incompatible_dep(
23:39:19 Registered adapter: snowflake=1.9.2
23:39:20 Found 2 models, 3 sources, 474 macros
23:39:20
23:39:20 Concurrency: 1 threads (target='dev')
23:39:22 1 of 2 START sql view model analytics.session_timestamp .......[RUN]
23:39:23 1 of 2 OK created sql view model analytics.session_timestamp .........[S
                                                                                           SS 1 in 0.63sl
2 of 2 OK created sql view model analytics.user_session_channel ...............[SUCCESS 1 in 0.30s]
         Finished running 2 view models in 0 hours 0 minutes and 3.33 seconds (3.33s).
23:39:23
23:39:23
23:39:23 Done. PASS=2 WARN=0 ERROR=0 SKIP=0 TOTAL=2
C:\Windows\System32\build_mau\models>_
```

2. Show contents of models/input/user_session_channel.sql and input/session_timestamp.sql





3. Set up Output models (1pt)

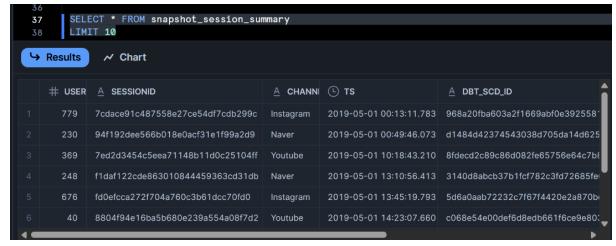
1. Show contents of models/output/session_summary.sql

```
C:\Windows\System32\build_mau\models>dbt run
00:04:39 Running with dbt=1.9.4
D:\VEDA\Python-Installation\Lib\site-packages\snowflake\connector\options.py:108: UserWarning: You have an incompatible version of 'pyarrow' installed (19.0.1), please install a version that adheres to: 'pyarrow<19.0.0; extra == "pandas"'
warn_incompatible_dep(
00:04:40 Registered adapter: snowflake=1.9.2
00:04:41 Found 3 models, 3 sources, 474 macros
00:04:41
00:04:41 Concurrency: 1 threads (target='dev')
00:04:41
00:04:42 1 of 3 START sql view model analytics.session_timestamp .......[RUN]
00:04:42 1 of 3 OK created sql view model analytics.session_timestamp .....
                                                                                              SS 1 in 0.60s]
                                                                                        [RUN]
00:04:42 2 of 3 START sql view model analytics.user_session_channel .....
00:04:42 2 of 3 OK created sql view model analytics.user_session_channel .....
                                                                                              SS 1 in 0.33s]
00:04:43 3 of 3 OK created sql view model analytics.session_summary ...... [SUCCESS 1 in 0.36s]
00:04:43
00:04:43 Finished running 3 view models in 0 hours 0 minutes and 2.58 seconds (2.58s).
00.04.43
00:04:43 Completed successfully
00:04:43
00:04:43 Done. PASS=3 WARN=0 ERROR=0 SKIP=0 TOTAL=3
C:\Windows\System32\build mau\models>_
```

→ Results ✓ Chart				
	# USERID	A SESSIONID	A CHANNEL	L TS
1	779	7cdace91c487558e27ce54df7cdb299c	Instagram	2019-05-01 00:13:11.783
2	230	94f192dee566b018e0acf31e1f99a2d9	Naver	2019-05-01 00:49:46.073
3	369	7ed2d3454c5eea71148b11d0c25104ff	Youtube	2019-05-01 10:18:43.210
4	248	f1daf122cde863010844459363cd31db	Naver	2019-05-01 13:10:56.413
5	676	fd0efcca272f704a760c3b61dcc70fd0	Instagram	2019-05-01 13:45:19.793
6	40	8804f94e16ba5b680e239a554a08f7d2	Youtube	2019-05-01 14:23:07.660
7	468	c5f441cd5f43eh2f2c024e1f8h5d00cd	Instagram	2019-05-01 15:03:54 650

- 4. Add Snapshot to the output table (session_summary) (2pt)
 - 1. Show contents of snapshots/snapshot_session_summary.sql

```
ersion of 'pyarrow' installed (19.0.1), please install a version that adheres to: 'pyarrow<19.0.0; extra == "pan'
 warn_incompatible_dep(
01:03:25 Registered adapter: snowflake=1.9.2
01:03:26
         Found 3 models, 1 snapshot, 3 sources, 474 macros
01:03:26
01:03:26
         Concurrency: 1 threads (target='dev')
01:03:26
         1 of 1 START snapshot snapshot.snapshot_session_summary ...... [RUN]
01:03:27
01:03:31
         1 of 1 OK snapshotted snapshot_session_summary .......................[SUCCESS 1 in 3.93s]
01:03:31
01:03:31
         Finished running 1 snapshot in 0 hours 0 minutes and 5.20 seconds (5.20s).
01:03:31
01:03:31
01:03:31
01:03:31 Done. PASS=1 WARN=0 ERROR=0 SKIP=0 TOTAL=1
```



- 5. Add at least 2 tests to sessionId field of session_summary (2pt)
 - 1. Show contents of models/schema.yml