

In []:

dbt setup with mysql (local)

In this document we will be learning about

- · how we can connect dbt with mysql
- · how to run dbt locally using vscode

prerequisites

- · Python is already installed
- · MySQL is installed

1. Create a python environment

run below command in command Terminal

- Creating python virtual environment for dbt project
- > python -m venv dbt_env
 - activate python dbt_env environmen
- > source dbt_env/bin/activate

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

(base) rajnish@Rajnishs-MacBook-Air dbt_mysql % pwd
/Users/rajnish/dbt/dbt_mysql
(base) rajnish@Rajnishs-MacBook-Air dbt_mysql % python -m venv dbt_env
(base) rajnish@Rajnishs-MacBook-Air dbt_mysql % source dbt_env/bin/activate
(dbt_env) (base) rajnish@Rajnishs-MacBook-Air dbt_mysql %
```

2. to check if any python library is installed or not in the new virtual environment

3. official link for setup -

Click Here

4. run below command to install required libraries

- > pip install dbt-core dbt-mysql
 - 5. pip freeze to check if below libraries are installed or not
 - dbt-core
 - dbt-mysql

6. run below command to initialise dbt project

> dbt init it will prompt for few details

- Enter a name for your project (letters, digits, underscore): dbt_with_mysql
 (base) rajnish@Rajnishs-MacBook-Air dbt-with-mysql % dbt init unning with dbt=1.7.18
 e for your project (letters, digits, underscore): dbt_with_mysql
- enter the number to select the database (database number can be different for your case)

```
13:38:35 Setting up your profile.
Which database would you like to use?
[1] mysql5
[2] mariadb
[3] mysql

(Don't see the one you want? https://docs.getdbt.com/docs/available-adapters)

Enter a number: 3

Screensl
```

7. now change the directory and go to the project folder

> cd dbt_with_mysql

8. run below command to check now if connection is setup properyl

> dbt debug

it should fail as we have not yet connected mysql

```
(dbt_env) (base) rajnish@Rajnishs-MacBook-Air dbt_with_mysql % dbt debug
13:55:00 Running with dbt=1.7.18
13:55:00 python version: 3.12.4
13:55:00 python path: /Users/rajnish/dbt/dbt_mysql/dbt_env/bin/python
13:55:00 os info: macOS-15.0-arm64-arm-64bit
13:55:00 Using profiles dir at /Users/rajnish/.dbt
13:55:00 Using profiles.yml file at /Users/rajnish/.dbt/profiles.yml
13:55:00 Using dbt_project.yml file at /Users/rajnish/dbt/dbt_mysql/dbt_with_mysql/dbt_project.yml
13:55:00 Configuration:
13:55:00 profiles.yml file [ERROR invalid]
13:55:00 Required dependencies:
13:55:00 Required dependencies:
13:55:00 Connection test skipped since no profile was found
13:55:00 Connection test skipped since no profile was found
13:55:00 Profile loading failed for the following reason:
Runtime Error
Credentials in profile "dbt_with_mysql", target "dev" invalid: ['schema'] is not valid under any of the given schemas
```

9. now update the profiles.yml file with the details of the database and again run dbt debug it should work fine

profiless.yml

/Users//.dbt/profiles.yml

```
! dbt_project.yml
                      ! profiles.yml ×
Users > rajnish > .dbt > ! profiles.yml
       dbt_with_mysql:
         target: dev
         outputs:
           dev:
             type: mysql
             server: localhost
             port: 3306 # optional
            # database: [schema] # optional, should be same as schema
             schema: employees
            username: root
 11
            password: welcome1
 12
            driver: MySQL ODBC 8.0 ANSI Driver
           # prod:
           # type: mysql
          # server: [server/host]
           # port: [port] # optional
              schema: [schema]
           #
              username: [username]
               password: [password]
              driver: MySQL ODBC 8.0 ANSI Driver
 21
```

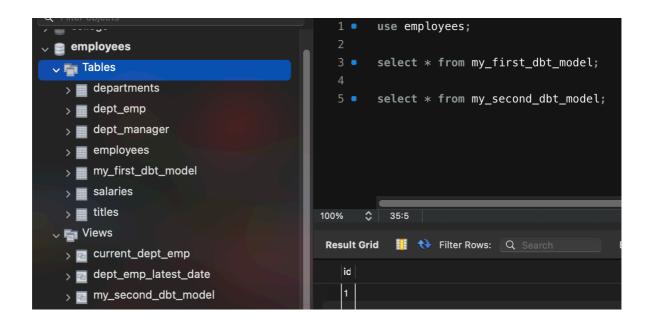
```
(base) rajnish@Rajnishs-MacBook-Air dbt_with_mysql % dbt debug
14:15:38
           Running with dbt=1.7.18
14:15:38
           dbt version: 1.7.18
14:15:38
           python version: 3.12.4
14:15:38
           python path: /Users/rajnish/dbt/dbt_mysql/dbt_env/bin/python
14:15:38
           os info: macOS-15.0-arm64-arm-64bit
           Using profiles dir at /Users/rajnish/.dbt
Using profiles.yml file at /Users/rajnish/.dbt/profiles.yml
Using dbt_project.yml file at /Users/rajnish/dbt/dbt_mysql/dbt_with_mysql/dbt_project.yml
adapter type: mysql
14:15:38
14:15:38
14:15:38
14:15:38
14:15:38
           adapter version: 1.7.0
14:15:38
           Configuration:
              profiles.yml file [OK found and valid]
dbt_project.yml file [OK found and valid]
14:15:38
14:15:38
14:15:38 Required dependencies:
14:15:38
            - git [OK found]
14:15:38 Connection:
             server: localhost
14:15:38
              unix_socket: None
14:15:38
14:15:38
              port: 3306
14:15:38
              database: None
14:15:38
              schema: employees
14:15:38
              user: root
14:15:38
           Registered adapter: mysql=1.7.0
14:15:38
              Connection test: [OK connection ok]
14:15:38 All checks passed!
(dbt_env) (base) rajnish@Rajnishs-MacBook-Air dbt_with_mysql % []
                                                                                        Screenshot
```

10. run below command

```
> dbt run
```

```
OUTPUT DEBUG CONSOLE
                                                   TERMINAL
14:15:38 All checks passed! (dbt_env) (base) rajnish@Rajnishs-MacBook-Air dbt_with_mysql % dbt run 14:27:28 Running with dbt=1.7.18
14:27:28
14:27:28
            Registered adapter: mysql=1.7.0
Unable to do partial parsing because saved manifest not found. Starting full parse.
Found 2 models, 4 tests, 0 sources, 0 exposures, 0 metrics, 375 macros, 0 groups, 0 semantic models
14:27:28
14:27:28
            Concurrency: 1 threads (target='dev')
14:27:28
14:27:28
14:27:28
14:27:28
14:27:28
            [SUCCESS 2 in 0.08s]
                                                                                                                        [RUN]
                                                                                                                        [SUCCESS 0 in 0.03s]
14:27:28
            Finished running 1 table model, 1 view model in 0 hours 0 minutes and 0.24 seconds (0.24s).
14:27:28
14:27:28
14:27:28
14:27:28
14:27:28 Done. PASS=2 WARN=0 ERROR=0 SKIP=0 TOTAL=2 (dbt_env) (base) rajnish@Rajnishs-MacBook-Air dbt_with_mysql %
                                                                                                  Screenshot
```

11. check in mysql workbench



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