Intro: why migrating?

Work on one table. Make one with a column on inches and convert it to cm by data migration.

The data migration is important, not the Db nor the tables.

Use SQL Developer and their tools.

Make a table with 10 entries, make it nice and easy.

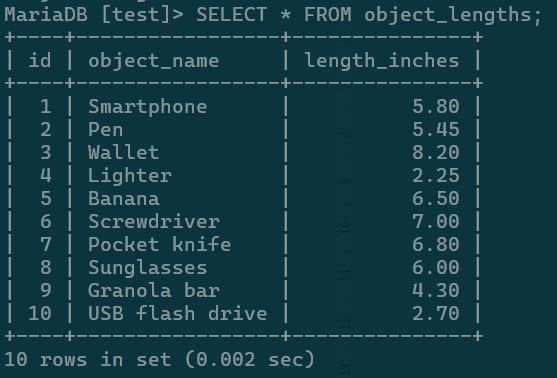


Table in question

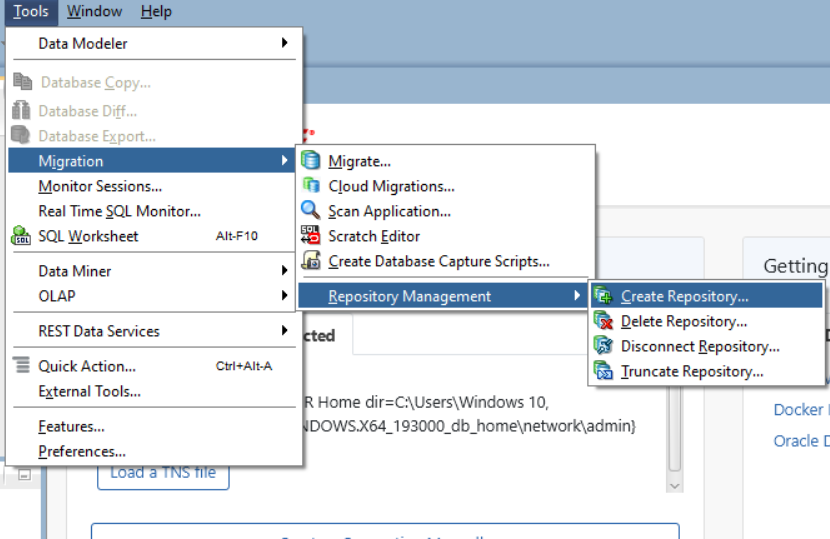
I have modified the instructions from <https://www.oracle.com/database/technologies/getstarted-sql-developer-migrations.html> so that I may migrate the table.

SQL Developer only works with an Oracle DB, which is c. 10GB, which I don’t have.

# Migration repository

In order for this to actually run, you need to setup a repository for the migration

select **Tools > Migration > Repository management > Create Repository...**

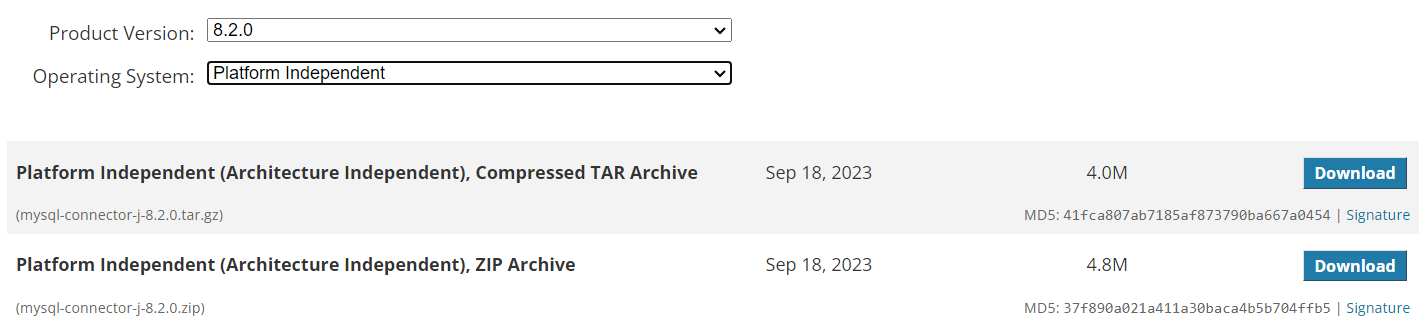


# Driver installation

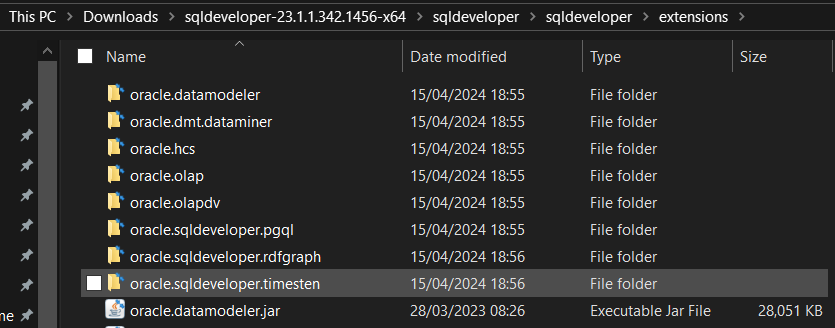
In order for this to work i.e. have MySQL/MariaDB recognized by SQL Developer, you need to download a driver to get it to work.

Had some difficulty until I used this: <https://stackoverflow.com/questions/29436886/how-to-connect-sql-developer-to-xampp-mysql-server>

Head over to <https://downloads.mysql.com/archives/c-j/> and pick “Platform Independent” to list the drivers:



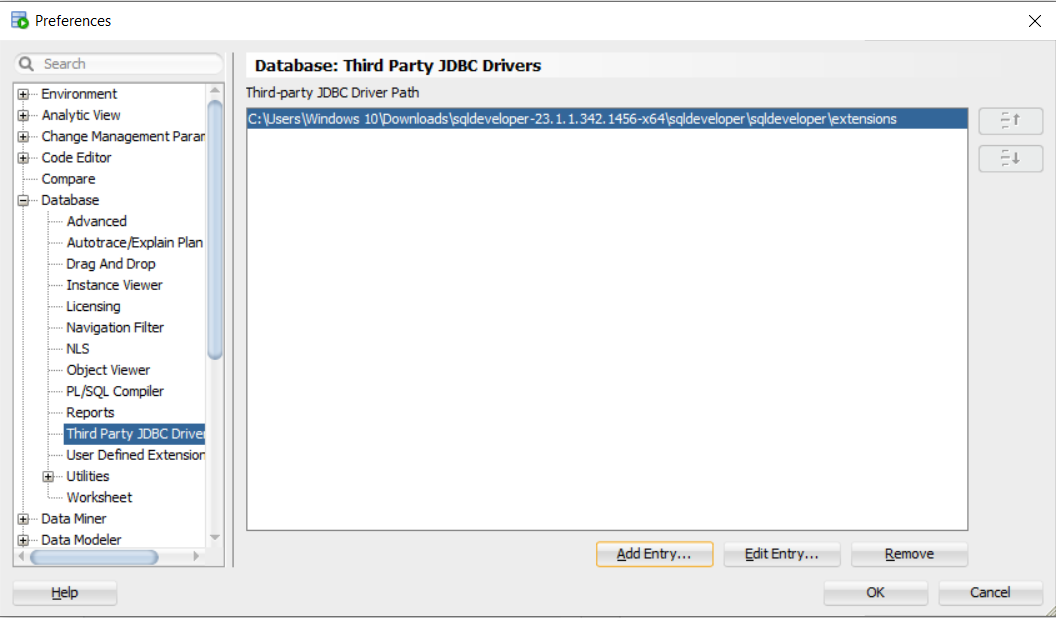
According to <https://stackoverflow.com/questions/29436886/how-to-connect-sql-developer-to-xampp-mysql-server> you can download the bin.jar file and put it in “<Path to SQL Developer>\sqldeveloper\extensions”, in other words go to where the sqldev exe file is, THEN go into the folder sqldeveloper, then go into extensions (this was rather confusing).



example

Now you need to add it to the third party driver list.

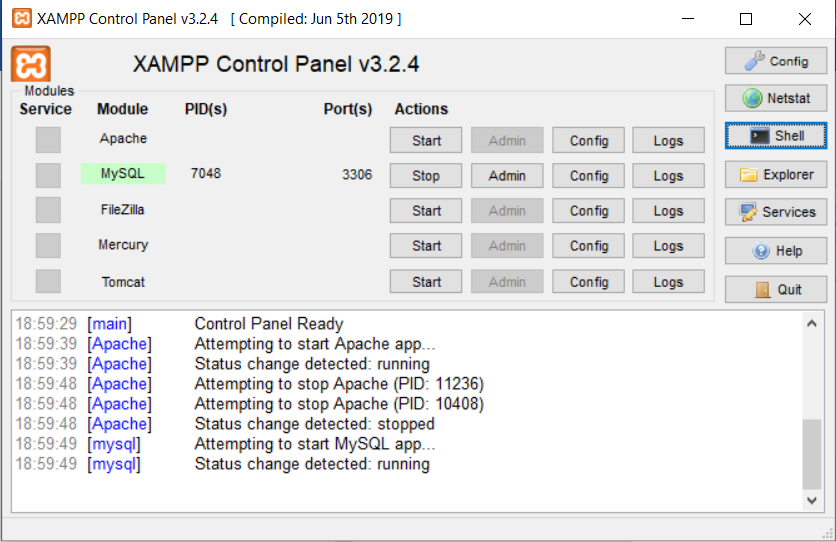
Go Tools -> Preferences then Database -> Third Party JDBC Drivers, then Add Entry. Add the extensions folder to it.



Restart and it should be available.

# Export SQL

You will need to export the database. This is achieved by using mysqldump. I’m using XAMPP as it has everything you need to get things working. Click on Shell on the right:



…to open a shell that can interact with MySQL.

According to <https://hevodata.com/learn/mysqldump-export-databases-and-tables/> this code can be used to dump the DB/table:

mysqldump [options] your\_db\_name [tbl\_name ...]

I exported it by using:

# mysqldump.exe -u root -p test object\_lengths > object\_lengths.sql

To dump a SQL file into the XAMPP directory.

# Migrate

Now you just need to connect to an Oracle DB, open the file as a worksheet, then execute.

Now, in order to convert the inches to centimeters, execure the following code:

ALTER TABLE object\_lengths

ADD length\_cm DECIMAL(5,2);

UPDATE object\_lengths

SET length\_cm = length\_inches \* 2.54;

This will create a new column that converts the inches. Any extra numbers will be truncated.