Task 1:

Help Little Lemon establish a connection to their MySQL database using Python, via MySQL Connector/Python API so that they can access data according to their business needs.

To achieve this task, complete the following steps:

* Step 1: Import the appropriate MySQL connector library using the alias connector.
* Step 2: Next, create a variable called connection and use it to store an instance of the connection made with the database using the connector module. This module uses a method called connect() and you should provide the relevant connection details.

TIP: You need an authenticated username and password to establish the connection. Use Username ="root" and Password = "" for your database connection. If you don’t see any error in the output while establishing the connection, your connection is successfully established.

# Print a message to guide the user

# Import MySQL Connector/Python

print("Importing MySQL Connector/Python API")

import mysql.connector as connector

print("MySQL Connector/Python API is imported successfully.\n")

# Establis connection with authorized user/password

print("Establishing a new connection between MySQL and Python.")

#connection=connector.connect(user="your\_username",password="your\_password")

connection=connector.connect(user="root",password="")

print("A connection between MySQL and Python is successfully established")

Task 2:

Little Lemon need to write clean safe code and must ensure that there are no connection issues when connecting with MySQL database. They have heard of Python’s try/except blocks and are interested in incorporating them into their own code.

* Step 1: As you did in the previous task, import an instance of MySQL connector using the alias connector.
* Step 2: Open a try block and place the appropriate connection code within it.

import mysql.connector as connector

try:

connection=connector.connect(

user="wrong\_user",

password='wrong\_password'

)

except:

print("""

There was a problem connecting to the database.

Please check your username or the password.

""")

Task 3:

Little Lemon need to identify the reason for any issues that might occur when connecting to the database. Help them to retrieve the error code along with the error message in the following situations:

* When the database does not exist.
* When a wrong username or password is entered.

To complete this task, use the following steps:

* Step 1: First, import an instance of MySQL connector using the alias connector.
* Step 2: Then open a try block and place the appropriate connection code within it:

import mysql.connector as connector

try:

connection=connector.connect(

user="ameta",

password="password",

database = "no\_database")

except connector.Error as er:

print("Error code:", er.errno)

print("Error message:", er.msg)