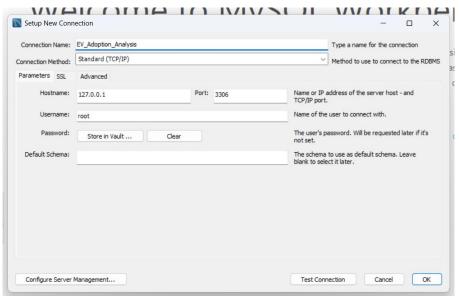
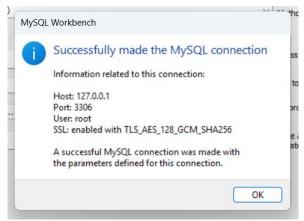
Steps involved in the loading of CSV File in MY SQL Workbench:-

1. Create a new coonection



Connection name – EV_Adoption_Analysis

2. Test Connection



3. Create a new Data Base



4. Prepare the Python Environment

Database Automation

Automate MySQL workflows using Pandas

```
Requirement already satisfied: pandas in c:\users\asus\anaconda3\lib\site-packages (2.2.3)
Requirement already satisfied: sqlalchemy in c:\users\asus\anaconda3\lib\site-packages (2.0.39)
Requirement already satisfied: pymysql in c:\users\asus\anaconda3\lib\site-packages (1.1.1)
Requirement already satisfied: numpy>=1.26.0 in c:\users\asus\anaconda3\lib\site-packages (from pandas) (1.26.4)
Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\asus\anaconda3\lib\site-packages (from pandas) (2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in c:\users\asus\anaconda3\lib\site-packages (from pandas) (2024.1)
Requirement already satisfied: tzdata>=2022.7 in c:\users\asus\anaconda3\lib\site-packages (from pandas) (2023.3)
Requirement already satisfied: greenlet!=0.4.17 in c:\users\asus\anaconda3\lib\site-packages (from sqlalchemy) (3.0.1)
Requirement already satisfied: typing-extensions>=4.6.0 in c:\users\asus\anaconda3\lib\site-packages (from python-dateutil>=2.8.2->pandas) (1.16.0)
Note: you may need to restart the kernel to use updated packages.
```

5. Write Python code in Jupyter to load CSV into MySQL

```
import pandas as pd
from sqlalchemy import create_engine
# MySQL connection info
host = 'localhost'
user = 'root'
password = '0231'
database = 'U_S_Electric_Vehicle_Adoption_Analysis'
table name = 'ev trends'
# CSV path (use raw string to handle backslashes and spaces)
csv_file_path = r'E:\Data Analyst 2025\Resume Projects\1. Evolution Insight US EV Trends\EvolutionInsight_US_EV_Trends.csv'
# Load CSV
df = pd.read_csv(csv_file_path)
# Create engine
engine = create_engine(f'mysql+pymysql://{user}:{password}@{host}/{database}')
# Upload DataFrame to MySQL table
df.to_sql(name=table_name, con=engine, if_exists='replace', index=False)
print("Data uploaded successfully!")
```

Data uploaded successfully!

6. Verify data in MySQL Workbench

```
USE U_S_Electric_Vehicle_Adoption_Analysis;
SHOW TABLES;
SELECT * FROM ev_trends LIMIT 5;
```

7. Data Loaded from CSV to My SQL Workbench

