

9. MySql – Pandas - DataFrame

Contents

1. DataFrame	2
2. Install the required libraries	2

9. MySql – Pandas - DataFrame

1. DataFrame

- ✓ Being a Data Scientist, we are very familiar with Pandas DataFrame
- ✓ We can create DataFrame from,
 - Csv file
 - Excel file
 - Json file
 - Mysql table
 - etc

2. Install the required libraries

- ✓ pip install **sqlalchemy**
- ✓ pip install **pymysql**
- ✓ pip install **cryptography**

Program Name

Accessing table from mysql
demo1.py

```
print("Step 1: Importing libraries")
import pandas as pd
from urllib.parse import quote_plus
from sqlalchemy import create_engine

print("Step 2: Preparing database connection string")
db_connection_str =
    'mysql+pymysql://root:%s@localhost/danieldb1' %
    quote_plus("D@1234niel#")

print("Step 3: Create database connection")
db_connection = create_engine(db_connection_str)

print("Step 4: Accessing read_sql function")
df = pd.read_sql('SELECT * FROM persons', con = db_connection)

print("Step 5: Accessing DataFrame")

print()
print(df)
```

Output

	PersonID	LastName	FirstName	Address	location
0	101	Dania	I	K Near to Data Science Area	Hyderabad
1	101	Nireekshan	D	Near to AI theater	Bangalore
2	103	Ranjan	M	Near to Python theater	Hyderabad
3	104	Prasad	K	Near to Python Road	Hyderabad