# Data Input and Output

Data Science Developer



#### **Using Pandas**

```
In [1]: import pandas as pd
```



# CSV

### Input



#### CSV Output

```
In [3]: df.to_csv('example',index=False)
```



#### **Excel**

#### Input



## Excel

#### Output

```
In [5]: df.to_excel('Excel_Sample.xlsx', sheet_name='Sheet1')
```



# HTML Input

```
In [6]: df = pd.read_html('http://www.fdic.gov/bank/individual/failed/banklist.html')
```

In [8]: df[0].head()

Out[8]:

	Bank Name	City	ST	CERT	Acquiring Institution	Closing Date	Updated Date
0	Washington Federal Bank for Savings	Chicago	IL	30570	Royal Savings Bank	December 15, 2017	February 21, 2018
1	The Farmers and Merchants State Bank of Argonia	Argonia	KS	17719	Conway Bank	October 13, 2017	February 21, 2018
2	Fayette County Bank	Saint Elmo	IL	1802	United Fidelity Bank, fsb	May 26, 2017	July 26, 2017
3	Guaranty Bank, (d/b/a BestBank in Georgia & Mi	Milwaukee	WI	30003	First-Citizens Bank & Trust Company	May 5, 2017	March 22, 2018
4	First NBC Bank	New Orleans	LA	58302	Whitney Bank	April 28, 2017	December 5, 2017



#### MySQL (Open Connection & Get Data)

```
import pandas as pd
from sqlalchemy import create_engine
```

```
conn = engine.connect()
results = conn.execute("SELECT * from salaries").fetchall()
# print(results[0].keys())
df1 = pd.DataFrame(results)
df1.columns = results[0].keys()
df1.head()
```



#### MySQL (CRUD Examples)

 Example executing query (Insert, Update, and Delete) from python:

```
#Insert Data To MySQL
conn.execute("Insert into product values(Null, '" + inputNama + "', " + inputCatId + ")");
#Update Data
conn.execute("Update product set Nama = '" + inputNamaBaruProd + " where id = " + inputIdProd);
#Delete Data
conn.execute("Delete from product where id = " + inputIdProd);
```

