

# LUCKYs\_SAVEMART Python Developer Questions

September 4, 2019

## 1 LUCKY's/SAVEMART Python Developer Questions

```
[ ]: #initial table
DataBase:
+-----+
|      A      |      B      |
+-----+
| Foo1 | Bar1 |
| Foo2 | Bar2 |
| Foo3 | Bar3 |
| Foo4 | Bar4 |
+-----+

#After clarification
Customers:
+-----+-----+
| first_name | last_name |
+-----+-----+
| John      | Smith    |
| Ava       | Muffinson|
| Cailin    | Ninson   |
| Mike      | Peterson |
+-----+-----+
```

### 1. Take a SQL database and pull the data into JSON format

```
[ ]: import json
import sqlite3

connection = sqlite3.connect('database.db')
cursor = connection.cursor()
query = "SELECT * FROM Customers"
result = cursor.execute(query)

sqlData = []
```

```

for row in result:
    for key in cursor.description:
        sqlData.append({key[0]: value for value in row})
print(json.dumps({'sqlData': sqlData}))

#OUTPUT should look like:
[{"firstname": "John", "lastname": "Smith"}, {"firstname": "Ava", "lastname":
→ "Muffinson"}, {"firstname": "Cailin", "lastname": "Ninson"}, {"firstname":
→ "Mike", "lastname": "Peterson"}]

```

## 2. Parse form API to JSON

```

[ ]: import requests

results = requests.get(url='https://<WebsiteURLhere>?print=pretty')
print(results.json())

```

## 3. Transfer a .CSV to JSON

```

[ ]: import csv
import json

csvfile = open('file.csv', 'r')
jsonfile = open('file.json', 'w')

fieldnames = ("FirstName", "LastName")
reader = csv.DictReader( csvfile, fieldnames)
out = json.dumps( [ row for row in reader ] )
jsonfile.write(out)

# OutPut Should look like:
[{"firstname": "John", "lastname": "Smith"}, {"firstname": "Ava", "lastname":
→ "Muffinson"}, {"firstname": "Cailin", "lastname": "Ninson"}, {"firstname":
→ "Mike", "lastname": "Peterson"}]

```