Assignment 3 Suggested Solutions

Part B:

Complete the following tasks,

- Provide the output from the above GET and POST requests.

GET

```
[
    [
        "ac1055",
        "10035",
        "b3",
        16003,
        "Mon, 31 Dec 2018 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1103",
        "10020",
        "b2",
        18124,
        "Sun, 02 Aug 2015 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1114",
        "10061",
        "b2",
        12978,
        "Tue, 06 Oct 2020 00:00:00 GMT",
        "Inactive"
    ],
    [
        "ac1118",
        "10012",
        "b2",
        15225,
        "Thu, 11 Jun 2015 00:00:00 GMT",
        "Active"
```

```
    ],
    [
        "ac1135",
        "10045",
        "b1",
        8411,
        "Sun, 02 Jun 2019 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1157",
        "10003",
        "b1",
        18693,
        "Wed, 21 Sep 2016 00:00:00 GMT",
        "Inactive"
    ],
    [
        "ac1163",
        "10019",
        "b1",
        18154,
        "Sun, 23 Feb 2020 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1183",
        "10068",
        "b2",
        14868,
        "Fri, 29 Jan 2016 00:00:00 GMT",
        "Inactive"
    ],
    [
        "ac1194",
        "10039",
        "b4",
        11820,
        "Fri, 22 Mar 2019 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1224",
        "10032",
        "b1",
        9801,
        "Fri, 19 Oct 2018 00:00:00 GMT",
        "Active"
```

```
        ],
        [
            "ac1230",
            "10013",
            "b3",
            17477,
            "Mon, 25 Sep 2017 00:00:00 GMT",
            "Inactive"
        ],
        [
            "ac1234",
            "10027",
            "b1",
            13656,
            "Wed, 07 Mar 2018 00:00:00 GMT",
            "Inactive"
        ],
        [
            "ac1238",
            "10045",
            "b1",
            11398,
            "Sat, 14 Jan 2017 00:00:00 GMT",
            "Inactive"
        ],
        [
            "ac1259",
            "10013",
            "b3",
            18387,
            "Fri, 18 Oct 2019 00:00:00 GMT",
            "Active"
        ],
        [
            "ac1267",
            "10022",
            "b1",
            17374,
            "Tue, 24 Nov 2015 00:00:00 GMT",
            "Active"
        ],
        [
            "ac1327",
            "10009",
            "b4",
            10839,
            "Sun, 27 Oct 2019 00:00:00 GMT",
            "Active"
```

```
            ],
            [
                "ac1452",
                "10035",
                "b3",
                19748,
                "Sat, 04 Nov 2017 00:00:00 GMT",
                "Inactive"
            ],
            [
                "ac1458",
                "10039",
                "b4",
                11479,
                "Tue, 21 Feb 2017 00:00:00 GMT",
                "Active"
            ],
            [
                "ac1470",
                "10005",
                "b2",
                11207,
                "Thu, 26 Mar 2015 00:00:00 GMT",
                "Active"
            ],
            [
                "ac1471",
                "10027",
                "b1",
                9117,
                "Mon, 05 Mar 2018 00:00:00 GMT",
                "Inactive"
            ]
        ]
```

POST

```
[
    [
        "ac1055",
        "10035",
        "b3",
        16003,
        "Mon, 31 Dec 2018 00:00:00 GMT",
        "Active"
```

```
        ],
        [
            "ac1103",
            "10020",
            "b2",
            18124,
            "Sun, 02 Aug 2015 00:00:00 GMT",
            "Active"
        ],
        [
            "ac1114",
            "10061",
            "b2",
            12978,
            "Tue, 06 Oct 2020 00:00:00 GMT",
            "Active"
        ],
        [
            "ac1118",
            "10012",
            "b2",
            15225,
            "Thu, 11 Jun 2015 00:00:00 GMT",
            "Active"
        ],
        [
            "ac1135",
            "10045",
            "b1",
            8411,
            "Sun, 02 Jun 2019 00:00:00 GMT",
            "Active"
        ],
        [
            "ac1157",
            "10003",
            "b1",
            18693,
            "Wed, 21 Sep 2016 00:00:00 GMT",
            "Inactive"
        ],
        [
            "ac1163",
            "10019",
            "b1",
            18154,
            "Sun, 23 Feb 2020 00:00:00 GMT",
            "Active"
```

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    [
        "ac1183",
        "10068",
        "b2",
        14868,
        "Fri, 29 Jan 2016 00:00:00 GMT",
        "Inactive"
    ],
    [
        "ac1194",
        "10039",
        "b4",
        11820,
        "Fri, 22 Mar 2019 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1224",
        "10032",
        "b1",
        9801,
        "Fri, 19 Oct 2018 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1230",
        "10013",
        "b3",
        17477,
        "Mon, 25 Sep 2017 00:00:00 GMT",
        "Inactive"
    ],
    [
        "ac1234",
        "10027",
        "b1",
        13656,
        "Wed, 07 Mar 2018 00:00:00 GMT",
        "Inactive"
    ],
    [
        "ac1238",
        "10045",
        "b1",
        11398,
        "Sat, 14 Jan 2017 00:00:00 GMT",
        "Inactive"
```

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    ],
    [
        "ac1259",
        "10013",
        "b3",
        18387,
        "Fri, 18 Oct 2019 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1267",
        "10022",
        "b1",
        17374,
        "Tue, 24 Nov 2015 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1327",
        "10009",
        "b4",
        10839,
        "Sun, 27 Oct 2019 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1452",
        "10035",
        "b3",
        19748,
        "Sat, 04 Nov 2017 00:00:00 GMT",
        "Inactive"
    ],
    [
        "ac1458",
        "10039",
        "b4",
        11479,
        "Tue, 21 Feb 2017 00:00:00 GMT",
        "Active"
    ],
    [
        "ac1470",
        "10005",
        "b2",
        11207,
        "Thu, 26 Mar 2015 00:00:00 GMT",
        "Active"
```

```
    ],
    [
        "ac1471",
        "10027",
        "b1",
        9117,
        "Mon, 05 Mar 2018 00:00:00 GMT",
        "Inactive"
    ]
]
```

- What is being done with the above GET and POST request?

  GET request:
  Retrieve all account information from the account table

  POST request:
  Change the account status of account number ac1114 of customer 10061 to Active.

- Create an API to get the branch information.

```python
@app.route('/GetBranchInfo',methods=['GET'])
def GetBranchInfo():

    if request.method == 'GET':

        cur=mysql.connection.cursor()

        branch_info= cur.execute("SELECT * FROM `branch`")


        if branch_info >0:
            branch_info = cur.fetchall()

            cur.close()
            return jsonify(branch_info),200


        else: return jsonify('Nothing Found'),404
```

- Create an API to change the home phone number to '43523478' of customer with id '10003'.

```python
@app.route('/ChangeCustomerInfo',methods=['POST'])
def ChangeCustomerInfo():

    if request.method == 'POST':
        data = request.get_json()
        Customer_id=data['Customer_id']
        Phone_number=data['Phone_number']

        cur=mysql.connection.cursor()

        change_customer_info = cur.execute("UPDATE `customer` SET `Home_Phone`=%s WHERE `Customer_id`=%s",(Phone_number,Customer_id,))
        mysql.connection.commit()

        customer_info= cur.execute("SELECT * FROM `customer` WHERE `Customer_id`=%s",(Customer_id,))

        if customer_info >0:
            customer_info = cur.fetchall()

            cur.close()
            return jsonify(customer_info),201

        else: return jsonify('Nothing Found'), 404
```