Amazon QLDB API Python

Api Overview

```
GET /api/apioverview/
```

```
HTTP 200 OK
Allow: OPTIONS, GET
Content-Type: application/json
Vary: Accept

{
    "apiOverview": "api/api-overview",
    "createLedger": "api/createledger",
    "createTable": "api/createtable",
    "insertRecords": "api/insertrecords",
    "updateRecords": "api/updaterecords",
    "revisionHistory": "api/gethistory"
}
```

Create Ledger:

{

"Name":"reccc"

}

Create Ledger

```
POST /api/createledger/
```

```
HTTP 200 OK
Allow: OPTIONS, POST
Content-Type: application/json
Vary: Accept

{
    "ResponseMetadata": {
        "RequestId": "72307a72-6898-448b-9346-5c133148f7b3",
        "HTTPStatusCode": 200,
        "HTTPHeaders": {
            "content-type": "application/json",
            "content-length": "154",
            "connection": "keep-alive",
            "date": "Wed, 08 Apr 2020 10:37:05 GMT",
            "x-amzn-requestid": "72307a72-6898-448b-9346-5c133148f7b3",
            "x-amz-apigw-id": "KqdkwErGvHcFkQQ=",
            "x-amzn-trace-id": "Root=1-5e8da951-fdd5576b61a82f90e013ed6b",
            "x-cache": "Miss from cloudfront",
            "via": "1.1 d61836c8bf5eb04c5c89f74624c4775d.cloudfront.net (CloudFront)",
            "x-amz-cf-pop": "MAA50-C1",
            "x-amz-cf-id": "jYe4KbNg06IMsuNg5OdAPuWxXu-0sdLxNBYN8SaIFbvXWhDAtdjz5w=="
        },
        "RetryAttempts": 0
    },
    "Name": "reccc",
    "Arn": "arn:aws:qldb:us-west-2:127831848834:ledger/reccc",
    "State": "CREATING",
    "CreationDateTime": "2020-04-08T10:37:05.729000Z",
    "DeletionProtection": true
}
```

NOTE: Change the name of ledger in constants.py file

```
class Constants:
    """

    Constant values used throughout this tutorial.
    """

    LEDGER_NAME = "Rec"
```

CreateTable:

```
{
"Tablename":"Student"
}
```

```
POST /api/createtable/
```

```
HTTP 200 OK
Allow: POST, OPTIONS
Content-Type: application/json
Vary: Accept

"Student Table created successfully."
```

InsertRecords

```
{
    "tablename":tablename,
    "data":[
      {
        "firstname":firstname
      },{
        "firstname":firstname
      }
    ]
  }
```

Content:
```
{
    "tablename":"Student",
    "data":[
        {
            "firstname":"Surya"
        },{
            "firstname":"Karthik"
        }
    ]
}
```

Content:
```
{
    "tablename":"Student",
    "data":[
        {
            "firstname":"Surya"
        },{
            "firstname":"Karthik"
        }
    ]
}
```

```
HTTP 200 OK
Allow: POST, OPTIONS
Content-Type: application/json
Vary: Accept


[
    "4o5UbGpRvrDEUNXUQ6BW0B",
    "LSkFpUFv1rnA5aLf3oRYfx"
]
```
Outputs the document id s

Update Records:

```
{
     "tablename":"Student",

     "data":{

        "field":"firstname","oldrecord":"Surya","newrecord":"Ram"

        }

   }
```

Content:
```
{
        "tablename":"Student",
        "data":{
           "field":"firstname","oldrecord":"Ram","newrecord":"Rambo"
           }
        }
```

```
POST /api/updaterecords/
```

```
HTTP 200 OK
Allow: POST, OPTIONS
Content-Type: application/json
Vary: Accept

"updated info"
```

Revision History:

```
{
     "tablename":"Person",

     "data":{

        "field":"firstname","searchrecord":"Rambo"

        }


   }
```

Content:

```
{
    "tablename":"Student",
    "data":{
        "field":"firstname","searchrecord":"Rambo"
    }
}
```

POST /api/gethistory/

```
HTTP 200 OK
Allow: POST, OPTIONS
Content-Type: application/json
Vary: Accept

{
    "tablename": "Student",
    "revisions": [
        {
            "firstname": "Surya",
            "version": 0
        },
        {
            "firstname": "Ram",
            "version": 1
        },
        {
            "firstname": "Rambo",
            "version": 2
        }
    ]
}
```

Github link:

https://github.com/suryamunirathinam/QldbPythonApi/tree/b1