

Tutorial 6

Question1: After creating the table 'newtable' and loading data to sqlite, what is the size of the new.db database file?

Answer: 8192 bytes

Question2: When the second client calls the helloSqlite Lambda function, how is the data different in the second container environment compared to the initial/first container?

Answer: When 2nd client calls the helloSqlite Lambda function the "Names" array in the second container grows. This happens for each subsequent call of the client. This implies the data is persistent.

Question3: For Lambda calls that execute in the same runtime container identified by the UUID returned in JSON, does the data persist between client Lambda calls with an in-memory DB? (Yes or No)

Answer: NO

Question4: Does the value of the static int persist for Lambda calls that execute in the same runtime container identified by the UUID returned in JSON? (Yes or No)

Answer: YES

Question5: How is the value of the static int different across different runtime containers identified by the UUID returned in JSON?

Answer: The value of the static int for different containers is persistent.

Question6. Before inserting rows into 'mytable', what must be done and why in the java code above?

Answer: Before inserting rows into a table, we have to check if the table is already existing or not. If not existing, then the table has to be created.

Question7:

Answer: Screenshot for the question# 7

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deeksha@deeksha:~/saaf_rds/saaf_rds_serverless/SAAF/java_template/test\$./callservice.sh
Invoking Lambda function using AWS CLI

real 0m2.120s
user 0m0.550s
sys 0m0.064s

AWS CLI RESULT:

```
{
  "cpuType": "Intel(R) Xeon(R) CPU E5-2676 v3 @ 2.40GHz",
  "cpuNiceDelta": 0,
  "vmuptime": 1573888088,
  "cpuModel": "63",
  "linuxVersion": "#1 SMP Tue Sep 24 00:45:23 UTC 2019",
  "cpuSoftIrqDelta": 0,
  "cpuUshrDelta": 3,
  "uuid": "8aa5a130-ce66-4c98-881c-3442f6e2e098",
  "platform": "AWS Lambda",
  "contextSwitches": 159518,
  "cpuKrn": 585,
  "cpuIdleDelta": 10,
  "cpuIowaitDelta": 0,
  "newcontainer": 0,
  "cpuNice": 0,
  "lang": "java",
  "cpuUshr": 1414,
  "majorPageFaultsDelta": 0,
  "freeMemory": "322984",
  "value": "Hello Fred Smith",
  "sqlVer": "5.6.10",
  "frameworkRuntime": 52,
  "contextSwitchesDelta": 166,
  "vmcpusteal": 1183,
  "cpuKrnDelta": 0,
  "vmID": "3fIrhm",
  "cpuIdle": 343286,
  "runtime": 188,
  "version": 0.31,
  "cpuIrqDelta": 0,
  "pageFaultsDelta": 605,
  "cpuIrq": 0,
  "totalMemory": "1009452",
  "names": [
    "fred",
    "Fred Smith",
    "Fred Smith",
    "Fred Smith",
    "Fred Smith",
    "Fred Smith",
    "Fred Smith",
    "Fred Smith",
    "Fred Smith",
    "Fred Smith",
    "Fred Smith"
  ],
  "cpuCores": "1",
  "cpuSoftIrq": 6,
  "cpuIowait": 248,
  "containerID": "2019/11/16/[$LATEST]4df4c915d82944aa86246a5cabdd21aa",
  "majorPageFaults": 1761,
  "vmcpustealDelta": 0,
  "pageFaults": 922803,
  "userRuntime": 118
}
```

