Setup a localhost mysql db in your local.

Create a table: **countries** with the following columns:

Country, Capital, Currency, C\_ID

Another table: **borders**

C\_ID, B\_ID

borders table will have multiple entry of country having border with another country

**countries** : C\_ID is primary key

|  |  |  |  |
| --- | --- | --- | --- |
| C\_ID | Country | Capital | Currency\_Code |
| IND | INDIA | NEW DELHI | INR |
| USA | UNITED STATES OF AMERICA | WASHINGTON DC | USA |
|  |  |  |  |
| **Borders:** C\_ID is f.key |  |  |  |
| C\_ID | B\_ID |  |  |
| IND | CHN |  |  |
| IND | PAK |  |  |
| IND | NEP |  |  |
| USA | CAN |  |  |
| CHN | IND |  |  |

Fill some values on your own from below api

GET: <https://restcountries.eu/rest/v2/all>

Create a framework with following testcases.

Execute the API and compare the information between DB and API

**TC01**: All Countries for which Capital data is missing in table

**TC02**: All Countries of which data between table and API having mismatch (Don’t include countries which do not have any data in table)

**TC03**: Execute the API and check whether country which has maximum number of countries bordering with are same or not between API and DB

Your Test Suite should be executed with single command and should be saving html at particular location every time executed.

Html should have following details

|  |  |
| --- | --- |
| Number of Test Cases Executed | 3 |
| Number of Test Cases Passed | 2 |
| Number of Test Cases Failed | 1 |

|  |  |
| --- | --- |
| TestCase | Result |
| TC01 | PASS |
| TC02 | FAIL |
| TC03 | PASS |

Each link of PASS/FAIL should be pointing to new html, where step by steps should be documented which was executed for each test.

Ex:

For TC01 upon opening the html, it should look like something as below

|  |  |
| --- | --- |
| TC ID | TC Desc |
| TC01 | All Countries for which Capital data is missing in table |

|  |  |  |
| --- | --- | --- |
| STEP | STATUS | TIME |
| API Executed: https://restcountries.eu/rest/v2/all | PASS | 22/03/20 12:34 |
| Connection Made to DB | INFO | 22/03/20 12:34 |
| Query Executed: select \* from ….. | INFO | 22/03/20 12:34 |
| Data. Matched | INFO | 22/03/20 12:34 |
| 5 countries’ capital data are missing. Click Here to open list | FAIL | 22/03/20 12:34 |

Your framework should be configurable enough to switch on/off any testcases without changing the code(through config)

Ex: If in next run I don’t want to executed TC02, it can be done through without changing anything in code.