**Non-SQL(Non-relational Data Base Management System)**

**Cassandra:**

**Query for creating new value:**

* **CREATE TABLE EMPLOYEE (**
* **empId int PRIMARY KEY,**
* **name text,**
* **dept text**
* **);**
* **-- insert**
* **INSERT INTO EMPLOYEE(empId,name,dept) VALUES (0001, 'Clark', 'Sales');**
* **INSERT INTO EMPLOYEE(empId,name,dept) VALUES (0002, 'Dave', 'Accounting');**
* **INSERT INTO EMPLOYEE(empId,name,dept) VALUES (0003, 'Ava', 'Sales');**
* **-- fetch**
* **SELECT \* FROM EMPLOYEE;**

JavaScript Programming Language

Q. What is JavaScript ?

Ans:- Enter a JavaScript function to filter, sort, or transform the data. You can use [Lodash](https://lodash.com/" \t "_blank) functions like \_.map, \_.filter, \_.orderBy, \_.sortBy, \_.groupBy, \_.pick, \_.uniq, \_.get, etcetera.

**Cucumber:-**

**Cucumber** is a testing tool that supports Behavior Driven Development (BDD). It offers a way to write tests that anybody can understand, regardless of their technical knowledge. In BDD, users (business analysts, product owners) first write scenarios or acceptance tests that describe the behavior of the system from the customer’s perspective, for review and sign-off by the product owners before developers write their codes. Cucumber framework uses [Ruby programming language](https://www.guru99.com/ruby-on-rails-tutorial.html).

There are multiple ways to test it in Cucumber Testing framework for net Banking application:

1. Fund Transfer should take place if there is enough balance in source account
2. Fund Transfer should take place if the destination a/c details are correct
3. Fund Transfer should take place if transaction password / rsa code / security authentication for the transaction entered by user is correct
4. Fund Transfer should take place even if it’s a Bank Holiday
5. Fund Transfer should take place on a future date as set by the account holder.

To overcome this issue, Cucumber BDD (Behavior Driven Development), was conceived. It makes the entire testing process easy for a developer

In Cucumber BDD, whatever you write must go into **Given-When-Then** steps. Lets consider the same example above in BDD

**Given** that a fund transfer module in net banking application has been developed And I am accessing it with proper authentication.

**When** I shall transfer with enough balance in my source account

Or I shall transfer on a Bank Holiday Or I shall transfer on a future data And destination a/c details are correct And transaction password/RSA code/security authentication for the transaction is correct And press or click send button.

**Then** amount must be transferred And the event will be logged in log file.

## Advantages of Cucumber Software

1. It is helpful to involve business stakeholders who can’t easily read code
2. Cucumber Testing tool focuses on end-user experience
3. Style of writing tests allow for easier reuse of code in the tests
4. Quick and easy set up and execution
5. Cucumber test tool is an efficient tool for [testing](https://www.guru99.com/software-testing-introduction-importance.html).

## Cucumber vs Selenium vs ALM

In this section, we will study the difference between Cucumber, Selenium and UFT.

| **Cucumber** | **HP ALM (QTP)** | **Selenium** |
| --- | --- | --- |
| * Cucumber software is free | * QTP is expensive | * It is free |
| * Cucumber software is a behavior driven development tool | * It’s a Functional Automation Tool | * It’s a Functional and Performance ( Selenium Grid) test tool |
| * Plugin in Cucumber testing tool works faster | * Plugin are slower compare to Cucumber and Selenium | * Plugins are slower than cucumber |
| * Cucumber Framework supports other language as well beyond Ruby like Java, Scala, Groovy etc. | * QTP supports only VB script | * Selenium supports Java, .Net and many other languages |
| * Writing automation steps are joint effort of testers and developer | * In[QTP](https://www.guru99.com/quick-test-professional-qtp-tutorial.html)only tester writes automation steps | * Like Cucumber Tool, writing automation steps are joint effort of testers and developer |
| * Cucumber testing tool supports only web environment | * Support web, desktop and any client server application | * Supports only web environment |