**Boot Camp 2019 Batch SDLC & ALM& SQL**



# WeekendSession Date:12/28/2019

**Software Development Lifecycle**

**Submission Instructions:**Save all your responses in a MS Word document and label the file using the following format:

*Winter2019 SDLC Bootcamp – Last 6 digits of Student ID*

## *Example*: Winter19 SDLC Bootcamp – 2789VA

**Scenario 1:**

You work as a Sr. Software Test Engineer at Accenture. Your QA manager, John Smith, has asked you to take the lead on an upcoming project in the QA Pipeline. As part of your responsibilities, you’ve designed a Test Plan and submitted it for approval to John. John has extensive leadership experience in the IT industry and has managed other areas of IT previously. However, John hasn’t had much experience in the Quality Assurance world. After reviewing your Test Plan, John asks for some clarification on some of the sections you’ve created in your Test Plan. Write an Email to John providing more details on the sections he’s asked about (listedbelow)

* Test Scope (Features to be tested and Features not to beTested)
* Pass/FailCriteria
* Entry/Exit Criteria
* TestDeliverables
* EnvironmentalNeeds
* Responsibilities

Be sure to provide an explanation for each of the sections mentioned above in your email. Your email should be professional and succinct.

## Scenario 2:

You are a Software QA Professional and are now interviewing at Amazon for your next job. While in the interview, the QA Lead taking your interview asks you to explain the difference between Regression Testing andAdhoc testing. Provide a thorough and complete answer to this interview question.

## Scenario 3:

You work as a QA Tester at Deloitte and are asked by your QA Lead to create an RTM. You attempt to create one in ALM but there aren’t enough licenses for you to log in at the moment. Your QA Lead expects you to provide him with the RTM before the end of the day. What are the

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main things you would include in the RTM that you would now be creating in MS Excel?List down the documents you need to complete RTM?**Note: you don’t need to create an RTM in MS Excel**



## Scenario 4:

You are a Software QA Professional and are now interviewing at Google for your next job. While in the interview, the QA Manager taking your interview asks you the following question: “Let’s say you log a bug that you find while executing 1 of your tests cases. But the developer replies back and says that this is not a valid bug. How would you tackle this situation and what would be your next steps?” Provide a thorough and complete answer to this interview question.

## Scenario 5:

You are a Senior Test Engineer with Booze Allen Hamilton working on a project for the IRS. The Product Owner on your team sends an email that the User Stories with Acceptance Criteria have been uploaded into ALM under the Requirements section. Explain in detail all of the events that have taken place up to this point in the SDLC and also explain the next steps to take place as part of the STLC. **Note:** *Do not simply state the names of the SDLC phases that have been completed, instead describe the events that have takenplace.*

# Manual Testing with HP APPLICATION LIFECYCLE MANAGEMENT

## Analyze technical requirements, build Test Scenarios, Design Test Cases, Execute Test Cases, Log Defects, Explain the Bug Lifecycle

1. Review the technical requirements provided for this part of the assignment and createTest Scenarios for each set ofrequirements

a. Write the test scenarios in an excel workbook and label the workbook appropriately

1. Using the Test Scenarios you’ve created, develop Test Cases for Manual Testing **using the Excel Template** provided with thisexercise
2. In ALM, as a **Site Administrator**perform the followingtasks
   1. Create a Domain titled“Boot\_Camp\_Summer\_2017”
   2. Create a Project titled“HomeDepot”
   3. Create Users and assign users to the HomeDepotProject

**i.** Create **10 users**

* 1. Delete **3users**
  2. Configure the Wait Before Disconnect to **1hour**
  3. Configure the Mail format fornotifications

1. In ALM, as a **Project Administrator**perform the followingtasks:
   1. Create users and assign them to the EtsyProject
   2. Add an existing user to the CostcoProject

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* 1. In ALM, as a **User**, perform the followingtasks:
     1. Create a Requirements Folder in the Requirements Module (ParentRequirement)
     2. Create a Requirements Folder in the Parent RequirementFolder
     3. Enter appropriate requirements in the Child RequirementFolder
     4. Install the Excel Add-­­in and prepare excel sheets for Requirements to export the technical requirements from Excel into the Requirements Module in the appropriate folders
     5. Convert the Requirements from the Requirement Module into Test Cases in theTest PlanModule
     6. Design the test cases in MS Excel and Import from excel into the appropriate TestCase folders in the Test PlanModule

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1. Generate appropriate Test Steps for each testcase



1. For Repeatable Test Steps, create TemplateTests
2. Call the appropriate Template Tests into the appropriate testcases
3. For Test Data, use Parameters when needed (At least 10 parameters must be used overall)
4. Ensure proper mapping of test cases to requirements isdone

## Create as many test cases as are necessary to fully testeachrequirement

Note Each requirement should have 1 positive and 1 negative test case AT LEAST

* + 1. In the Test Lab Module, create TestSets
    2. Import the Test Cases from the Test Plan Module into the Test LabModule
    3. Execute the Test Cases from the Test LabSection
    4. Log appropriate defects during the TestExecution

i. Attach screen shots using the Snapshot feature

* + 1. In the Defects Module, create a New Defect for the same defect foundpreviously

1. ProvideSnapshots
2. Provide the steps toreproduce
   * 1. On a Microsoft Word document, explain *in detail* **each** step of the **BugLifecycle**

i. Explain the status of the bug at each phase of the Bug Lifecycle

**Requirements**

## \*\*\*Note\*\*\*

**Use your understanding of the application and testing concepts to determine appropriate expected results when necessary**

1. **Users are able to register a new account at**[**www.HomeDepot.com**](http://www.HomeDepot.com/)
2. **Valid users are able to login.**
3. **Users are able to reset their passwords under the ‘Account Information’page to ‘password’successfully.**
4. **All users are able to search for the items to purchase and add items into the shoppingcart.**
5. **Users are able to update item quantities in the shopping cart and viewthe appropriate updated price in the ‘Item Total’column.**
6. **AftersearchingforaProduct,usersareabletorefinetheirsearchusingfilters on the right side of the screen such as ‘Brand’ &‘Price’.**

**Boot Camp Winter 2019 Batch**

**Subject: SQL-Weekend Session Date: 03/24/2019**

1. Find out those Employees who have commission.
2. SELECT first\_name, last\_name, commission\_pct
3. FROM employees
4. WHERE commission\_pct IS NOT NULL
5. Find out the Top 10 salaried employees.
6. SELECT \*
7. FROM (SELECT \* FROM employees ORDER BY salary ASC)
8. WHERE rownum<=10;
9. Find out those employees who get more than the average Salary.

SELECT first\_name,last\_name,salary

FROM employees

WHERE salary>(SELECT AVG(salary)

FROM employees);

1. Write query to retrieve employees id, name,salary, commission,department\_ID
2. Create table with your name.
3. Insert 6 records in the table you created
4. Update two records that you inserted earlier(Any column )
5. Delete two record from your table ?

15 Write query to retrieve to display first 10 records from employees table?

SELECT \*

FROM (SELECT \* FROM employees order by rownum DESC)

WHERE rownum<=10

ORDER BY employee\_id;

1. Find out those employees who get the same salary as **“PETER TUCKER”**.

SELECT first\_name,last\_name,salary

FROM employees

WHERE salary=(SELECT salary

FROM employees

WHERE UPPER(first\_name)=’PETER’

AND UPPER(last\_name)=’TUCKER’);

1. Find out employees average Salary greater than 10,000 within their Department.

SELECT department\_id,AVG(salary)

FROM employees

GROUP BY department\_id

HAVING AVG(salary)>10000

ORDER BY AVG(salary

1. Write an SQL Query:

**If job is IT\_PROG, the Salary increases 15%**

**If job is FI\_ACCOUNT, the Salary increases 10%**

**If job is ST\_CLERK, the Salary increases 25%**

**If job is SA\_REP, the Salary increases 20%**

**If job is AC\_ACCOUNT, the Salary increases 20%**

**For all other roles, there is no increase Salary.**

In programming Pseudo code:

If job\_id=IT\_PROG, then Salary=salary\*1.1,

Elseif job\_id=FI\_ACCOUNT, then Salary=salary\*1.15,

Elseif job\_id=ST\_CLERK, then Salary=salary\*1.20,

Elseif job\_id=SA\_REP, then Salary=salary\*1.25,

Elseif job\_id=AC\_ACCOUNT, then Salary=salary\*1.30,

Else Salary=salary\*1.0

SELECT first\_name, last\_name, job\_id, salary,

DECODE (job\_id, 'IT\_PROG', salary\*1.10,

'FI\_ACCOUNT', salary\*1.15,

'ST\_CLERK', salary\*1.20,

'SA\_REP', salary\*1.25,

'AC\_ACCOUNT', salary\*1.30,

salary) increased\_salary

FROM employees;

1. Display the number of Distinct Department in the Employee table.
2. Find out the departments that do not have employees.
3. (SELECT e.first\_name,e.last\_name,e.department\_id, d.department\_name
4. FROM employees e, departments d
5. WHERE e.department\_id(**+**)=d.department\_id)
6. MINUS
7. (SELECT e.first\_name,e.last\_name,e.department\_id, d.department\_name
8. FROM employees e, departments d
9. WHERE e.department\_id=d.department\_id);
10. Find out employees name, salary, department name, department id, city, country, start date and job title

SELECT e.first\_name, e.last\_name, e.salary,d.department\_name,l.city,c.country\_name,r.region\_name,jh.start\_date,j.job\_title

FROM employees e,departments d,locations l, countries c, regions r,job\_history jh, jobs j

WHERE e.department\_id =d.department\_id

AND d.location\_id =l.location\_id

AND l.country\_id =c.country\_id

AND c.region\_id =r.region\_id

AND jh.department\_id=d.department\_id

AND jh.job\_id =j.job\_id

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