***Module 3 (Testing on Live Application)***

1. **What is RDBMS?**

A relational database can be created, updated, and interacted with by the IT team and other users thanks to the RDBMS, or Relational Database Management System, a set of tools and programmes.

1. **What is SQL?**

SQL is Structured Query Language is a standardized programming language that is used to manage relational databases and perform various operations on the data in item.

1. **Write SQL Commands**
2. DDL – Data Definition Language that includes Create table, Create database, Use, Truncate
3. DML – Data Manipulation Language that includes Insert, Update, Delete
4. DQL – Data Query Language includes Select
5. DCL/TCL – Data/Transactional Control Language that include commit, rollback etc
6. **What is join?**

A join clause is used to combine rows from two or more tables, based on a related column between them.

1. **Write type of joins.**

There are mainly 4 type of joints

1. Inner Join – Returns record that have matching values in both tables
2. Left Join – Returns all records from left table and match records from the right table.
3. Right Join – Returns all records from right table and match records from left table.
4. Full Outer Join – Returns all records when there is a match either left or right table.
5. **How many constraint and describes it-self?**

There are mainly 7 constraints and they are

1. Primary Key – Unique + Not Null
2. Foreign Key – It depends on primary table
3. Unique Key – Only unique value – blank allow
4. Check – Condition you should apply
5. Not Null – Not to be blank
6. Default – Fixed value
7. Index – When you searching some record at the time of applying indexing
8. **Difference between RDBMS v/s DBMS**

|  |  |  |
| --- | --- | --- |
| **No.** | **DBMS** | **RDBMS** |
| 1) | DBMS applications store data as file. | RDBMS applications store data in a tabular form. |
| 2) | DBMS uses file system to store data, so there will be no relation between the tables. | in RDBMS, data values are stored in the form of tables, so a relationship between these data values will be stored in the form of a table as well. |
| 3) | DBMS has to provide some uniform methods to access the stored information. | RDBMS system supports a tabular structure of the data and a relationship between them to access the stored information. |
| 4) | DBMS does not support distributed database. | RDBMS supports distributed database. |
| 5) | DBMS is meant to be for small organization and deal with small data. it supports single user. | RDBMS is designed to handle large amount of data. it supports multiple users. |
| 6) | Examples of DBMS are file systems, xml etc. | Example of RDBMS are mysql, postgre, sql server, oracle etc. |

1. **What is API Testing?**

Application Programming Interface (API) testing is a sort of software testing used to examine the performance, security, and dependability of the programming interface.

1. **Types of API Testing**

There are mainly 3 types of API Testing

1. Open APIs – This APIs are publicly available to use. So they are also known as public APIs
2. Partner APIs – Specific rights or licenses to access this type of APS because they are not available in public.
3. Internal APIs – This APIs are developed by companies to use in their internal systems. It helps to enhance the productivity of teams.
4. **What is Responsive Testing?**

The goal of responsive testing is to design a web page that can be accessed from any device, from a mobile phone to a tablet.

1. **Which types of tools are available for Responsive Testing?**

There are some tools used in Responsive Testing

1. LT Browser
2. Lembda Testing
3. Goggle Resizer
4. I am responsive
5. Pixel Tuner
6. **What is the full form of .ipa, .apk?**
7. .ipa - iOS Package App Store
8. .apk – Android Application Package
9. **How to create step for to open the developer option mode ON?**

Go to Setting > About Phone>System>Advanced>Developer Option>USB debugging

**Module-4 Automation Core Testing (Load Runner Up and Selenium IDE)**

1. **Which components have you used in Load Runner?**

Load Runner has mainly 4 components –

* Virtual Generator
* Analyzer,
* Controller and
* Load Generator.

1. **How can you set the number of VUsers in Load Runner?**

To set the number of VUser in load runner it’s in the controller section while creating scenarios.

1. **What is Correlation?**

The term "correlation" refers to a connection between two measurements or sets of metrics. This statistical measure shows how much two or more variables change in respect to one another.

1. **What is the process for developing a VUser Script?**

There are 5 steps for developing VUser Script

1. Recoding the VUser script
2. Edit the VUser script
3. Runtime setting
4. Run the VUser script in standalone mode
5. Incorporate the VUser script into load runner scenario
6. **How Load Runner interacts with the application?**

Load Runner can simulate thousands of users concurrently using application software, recording and later analyzing the performance of key components of the application.

1. **What is the relationship between Response Time and Throughput?**

The response time for an average transaction tends to decrease as you increase overall throughput.

1. **What is the difference between hits/second and requests/second?**

Hits per second means the number of hits the server receives in one second from the vuser. Request per second is the number of request the vuser will request from the server.

1. **What is Automation Testing?**

Test automation is the process of testing various parts of new software with little to no human involvement.

1. **Which Are The Browsers Supported By Selenium Ide?**

The browser supported by Selenium IDE are Google Chrome, Internet Explorer 7 onwards, safari, Opera and Firefox.

1. **What are the benefits of Automation Testing?**

* Better Quality Product
* Improved Safety
* More efficient use of materials
* Increased productivity.

1. **What are the advantages of Selenium?**

* Open Source
* Supports Operating Systems
* Reusability
* Ease of Implementation.

1. **Why testers should opt for Selenium and not QTP?**

With QTP testing tool, there is no resource like selenium grid and hence selenium takes preference.