**Software Testing**

**MODULE – 3 (Testing on live Application)**

**1.What is RDBMS?**

* RDBMS “Relational database management system” is a collection of programs that allows to create, update & interact with relational database
* It stores data in the form of table
* It includes functions that maintains security, accuracy, integrity & consistency of the data

**2.What is SQL.?**

* “Structured query language” is the standard database language to operate/ dealing with database
* With help of SQL we can perform certain operation on existing database
* It can be used to create table, insert data into table, update, alter & delete database records
* SQL is ANSI (American national standard institute) language

**3.Write SQL commands?**

1.DDL (data definition language)-Create: this command is used to create a table

* Drop: it is used to delete the whole table
* Truncate: to delete all the rows from table
* Alter: To add new column in table & to change column in existing table

2.DML (data manipulation language)-Insert: it is used to insert data into table

* Update: it is used to update/modify the value of a column in the table
* Delete: to remove one or more rows from a table

3.DCL (data control language)-Grant: it permits users to access database

* Revoke: it withdraws the permission given by the grant command

4.TCL (transaction control language)-Commit: it is used to save all the transaction to the database

* Rollback: it allows to undo transactions that have not been saved to database
* save point: it helps to set save point so that next time it will start from there
* set transaction: it specifies the characteristics of transaction

5.DQL (data query language)-

* Select: it is used to retrieve/query data from a table in data base

**4.What is join?**

* Joint is used to combine the rows from two or more tables, based on related column between them

**5.Write types of join**

* There are four types of join operation

1.Left join: Returns all records from left table & matched records from the right table

2.Right join**:** Returns all records from right table & matched records from the left table

3.Full join: Returns all records when there is a match in either left or right table

4.Inner join: It is widely used join operation & considered as a default join type

* inner joint returns all record that have matching values in both tables

**6.Difference between RDMS vs DBMS**

|  |  |
| --- | --- |
| **RDMS** | **DBMS** |
| 1.RDMS stands for “Relational database management system” | 1.DBMS stands for “Database management system” |
| 2.It stores data in the form of table | 2.This technology stores data in the form of files |
| 3.It is design to deal with vast amount of data | 3.It is design to handle small amount of data |
| 4.It provides support for multiple users at a time | 4.It provides support only for a single user at a time |

**7.How many constraint & describe itself**

* NOT NULL, Unique, Default & Check
* Key constraints- Primary Key & Foreign Key
* Constraint**:** It is used to limit the type of data that can be inserted/updated/deleted from a table
* It ensures accuracy & reliability of data in the table, if there is any violation between the constraint & data action then the action is aborted
* Constraints can be column level or table level

**8.What is API testing**

* API is application programming interface which allows to two application to interact without any user intervention

**9.Types of API Testing**

* There are 3 types of API testing
* 1.Open API-These types of APIs are publicly available to use
* 2.Partner API- It has specific license or rights to access, it is not available to the public
* 3.Internal API- It is call as Internal or private, these are developed by companies to use in their internal system

**10.What is Responsive testing**

* The goal of responsive testing to check if all component of website is adaptive to different screen sizes
* In this the website/application is checked in different devices screen like mobile, desktop, laptop & tablet
* Any text/content/images should not overlap or shrink, screen should be displayed same in all screens

**11.Which types of tools are available for Responsive testing**

* 1.LT browser
* 2.Lemda
* 3.Google resizer
* 4.I am responsive

**12.What is full form of .ipa, .apk**

* **.ipa**- iOS APP store Package
* **.apk-** Android application package file

**13.How to create step to open the developer option mode ON?**

* Step-1: Open settings on android phone
* Step-2: scroll down & tap on about device under the system section
* Step-3: Tap on build number 7 times or until the message “you are now developer” is seeing on the screen
* Step-4: tap the back button & tap developer options under the system section
* Now, you will be able to see developer options on your android device’s setting menu