

Module 3 (Testing on Live Application)

1. What is RDBMS

RDBMS stands for Relational Database Management System. RDBMS is the basis for SQL, and for all modern database systems like MS SQL Server, IBM DB2 Oracle, MySQL, and Microsoft Access.

A Relational database management system (RDBMS) is a database management system (DBMS) that is based on the relational model.

Most of today's databases are relational:

database contains 1 or more tables

table contains 1 or more records

record contains 1 or more fields

fields contain the data

it is called relational because tables are related (joined) based on common fields

2. What is SQL

SQL is Structured Query Language, which is a computer language for storing, manipulating and retrieving data stored in relational database.

SQL is the standard language for Relation Database System. All relational database management systems like MySQL, MS Access, Oracle, Sybase, Informix, postgres and SQL Server use SQL as standard database language.

3. Write SQL Commands

DDL – Data Definition Language

DML – Data Manipulation Language

DCL – Data Control Language

DQL – Data Query Language

4. What is join?

A join is an SQL operation performed to establish a connection between two or more database tables based on matching columns, thereby creating a relationship between the tables

5. Write type of joins.

INNER JOIN: returns rows when there is a match in both tables.

LEFT JOIN: returns all rows from the left table, even if there are no matches in the right table.

RIGHT JOIN: returns all rows from the right table, even if there are no matches in the left table.

FULL JOIN: returns rows when there is a match in one of the tables.

6. Difference between RDBMS vs DBMS

DBMS	RDBMS
DBMS stores data as file.	RDBMS stores data in tabular form.
Data elements need to access individually.	Multiple data elements can be accessed at the same time.
No relationship between data.	Data is stored in the form of tables which are related to each other.
DBMS does not support distributed database.	RDBMS supports distributed database.

DBMS	RDBMS
It stores data in either a navigational or hierarchical form.	It uses a tabular structure where the headers are the column names, and the rows contain corresponding values.
It deals with small quantity of data.	It deals with large amount of data.
Data redundancy is common in this model.	Keys and indexes do not allow Data redundancy.
Security is less	More security measures provided.
Data fetching is slower for the large amount of data.	Data fetching is fast because of relational approach.
Examples: XML, Window Registry, Forxpro, dbaseIIplus etc.	Examples: MySQL, PostgreSQL, SQL Server, Oracle, Microsoft Access etc.

7. What is API Testing

Application Programming Interface (API) is a software interface that allows two applications to interact with each other without any user intervention

API (Application Programming Interface) is a computing interface which enables communication and data exchange between two separate software systems.

The purpose of API Testing is to check the functionality, reliability, performance, and security of the programming interfaces.

8. Types of API Testing

There are mainly 3 types of API Testing

Open APIs: These types of APIs are publicly available to use like OAuth APIs from Google. It has also not given any restriction to use them. So, they are also known as Public APIs.

Partner APIs: Specific rights or licenses to access this type of API because they are not available to the public.

Internal APIs: Internal or private. These APIs are developed by companies to use in their internal systems. It helps you to enhance the productivity of your teams.

9. What is Responsive Testing?

A responsive web design involves creating a flexible web page that is accessible from any device, starting from a mobile phone to a tablet.

Furthermore, a responsive web design improves users' browsing experience.

Considering this from a quality assurance perspective, a responsive web design requires thorough evaluation using a variety of devices before it is ready to go live.

Software testers may find it challenging to perform responsive design testing as a variety of factors are to be looked into during the testing phase.

10. Which types of tools are available for Responsive Testing

LT Browser

Lambda Testing

Google Resizer

I am responsive

Pixel tuner

11. What is the full form of .ipa, .apk

APK stands for Android Package Kit and IPA stands for iOS App Store Package. APK is the file format used for distributing and installing applications on Android devices. IPA is the file format used for distributing and installing applications on iOS devices. APK files can be downloaded from sources other than Google Play Store, while IPA files are typically downloaded from the Apple App Store.

12. How to create step for to open the developer option mode ON?

Step 1: Go to Settings > About phone.

Step 2: Scroll down to Build number.

Step 3: Tap Build number seven times. ...

Step 4: Once developer options are activated, you will see a message that reads, you are now a developer.

Step 5: Go back to the Settings pane and head to System, where you will now find Developer options as an entry.

Step 6: Tap it and toggle the switch on if it is not already, and from there, you can proceed to make adjustments to your phone.