Module 3 (Testing on Live Application)

Q.1 What is RDBMS

Ans. RDBMS is a common type of **database** that stores data in table format with each table consisting of raw and column data, so it can be used in relation to other stored datasets. The software used to store, manage, query, and retrieve data stored in a relational database is called a relational database management system (RDBMS). The RDBMS provides an interface between users and applications and the database, as well as administrative functions for managing data storage, access, and performance.

Q.2 What is SQL

Ans. SQL (pronounced "ess-que-el") stands for Structured Query Language. SQL is used to communicate with a database. According to ANSI (American National Standards Institute), it is the standard language for relational database management systems

Q.3 Write SQL Commands

Ans. **DQL** – Data Query Language (Select)

**DML** – Data Manipulation Language (Insert, Update, Delete)

**DCL** – Data Control Language (Grant, Revoke)

**DDL** – Data Definition Language (Create, Alter, Drop)

Q.4 What is a join?

Ans. “A join statement is used to combine data rows from two or more tables based on a common field between them.” A JOIN clause is used to combine rows from two or more tables, based on a related column between them.

Q.5 Write type of joins

Ans. SQL Join Types

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.

Q.6 How many constraints and describes itself

Ans. SQL Constraints are used to specify rules for the data in a table.

NOT NULL: Ensure that column cannot have a null value.

UNIQUE: Ensures that values in columns are different.

PRIMARY KEY: a combination of NOT NULL and UNIQUE. Each row in the table is uniquely identified.

FOREIGN KEY: Uniquely identifies a row/record in another table.

CHECK: Ensures that all values in a column satisfy a specific condition.

DEFAULT: Sets a default value for a column when no value is specified.

Q.7 Difference between RDBMS vs DBMS

Ans.

| DBMS | RDBMS |
| --- | --- |
| DBMS stores data as a file. | Data is stored in the form of tables. |
| DBMS supports a single user only. | RDBMS supports multiple user |
| low software and hardware needs. | High hardware and software needs. |
| Data elements need to be accessed individually. | Multiple data elements can be accessed at the same  time using SQL query |

Q.8 What is API Testing

Ans. Application Programming Interface (API) is a software interface that allows two applications to interact with each other without any user intervention**.** API tests use extreme conditions and inputs when analyzing applications. This removes vulnerabilities and guards the app against malicious code and breakage. API tests can be integrated with GUI tests. For example, integration can enable new users to be created within the app before a GUI test is performed.

Q.9 Types of API Testing

Ans. There are mainly four types of API testing, as described below

Open APIs: These types of APIs are publicly available to use, like the OAuth APIs from Google. It has also not placed any restrictions on their use. So, they are also known as public APIs.

Partner APIs: Specific rights or licenses to access this type of API are required 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

Q.10 What is Responsive Testing?

Ans. The Responsive design test means testing the website or URL from different devices. Other browsers like Chrome provide software or programs called “emulators” which will help change the screen features and environment as per the desired device needed for testing.

Q.11 Which types of tools are available for Responsive Testing

Ans. Below tools are available for responsive testing

1. LT Browser

2. Lemda Testing

3. I am responsive

4. Google resizer

5. Responsinator

6. Pixel Tuner

Q.12 What is the full form of .ipa, .apk

Ans **.iPA:** iOS APP Store Package

**APK**: Android Application Package file

Q.13 How to create a step to open the developer options mode ON?

Ans. 1 Go to “Settings”, then tap “About device” or “About phone”.

2 Scroll down, then tap “Build number” seven times. Depending on your device and operating system, you may need to tap “Software information”, then tap “Build number” seven times.

3 Enter your pattern, PIN, or password to enable the Developer options menu.