**Module-3 & Module-4**

1. **What is RDBMS?**

* **RDBMS**: Relational Database Management System. It’s a program that’s used to create, update and manage relational databases.

It stores data in form of Tables (Rows & Columns), with most commercial database management systems using Structured Query Language (SQL) to access the database.

1. **What is SQL?**

* **SQL**: Structured Query Language

It is a domain specific language used in programming and designed for managing data held in a Relational Database Management System (RDBMS).

1. **Write SQL Commands.**

* **DDL**: Data Definition Language

Create Table, Create Database, Use, Truncate etc.

* **DML**: Data Manipulation Language

Insert, Update, Delete

* **DQL**: Data Query Language

Select

* **DCL/ TCL**: Data Control Language/ Transactional Control Language

Commit/ rollback etc.

1. **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 types of Joins.**

* Following are the Different types of JOINS:
* INNER JOIN: Returns the records that have matching values in both tables.
* LEFT (OUTER) JOIN: Returns all records from the left table, and the matched records from the right table.
* RIGHT (OUTER) JOIN: Returns all records from the right table, and the matched records from the left table.
* FULL (OUTER) JOIN: Returns all records when there is a match in either left or right table.

1. **How many constraints are there and describe itself?**

* **Constraints:**
* **PRIMERY KEY:** Unique+ not null
* **FOREIGN KEY**: Depends on Primary Table
* **UNIQUE KEY:** Only Unique Value, Blank Allowed
* **CHECK:** Condition you should apply
* **NOT NULL:** Not to be Blank
* **DEFAULT:** Fixed Value
* **INDEX:** When you search some record at that time apply indexing

1. **Difference between RDBMS vs DBMS**

|  |  |
| --- | --- |
| **RDBMS** | **DBMS** |
| Data is stored in the form of tables. | DBMS stores data as a file. |
| RDBMS supports multiple users, means supports Client – Server Architecture. | DBMS supports single user only, so does not support Client – Server Architecture. |
| It requires high hardware and software. | Its software and hardware needs are low. |
| Multiple data elements can be accessed at the same time using SQL query. | Data elements need to access individually. |
| Stores Data in the forms of rows and columns. | Hierarchical arrangement of data. |
| Examples are MySQL, Oracle, SQL Server etc. | Examples are a file system, XML, Windows Registry etc. |

1. **What is API Testing?**

* API Testing: API Testing is to check the functionality, reliability, performance and security of the programming interfaces.
* (API: Application Programming Interface is a computing interface which enables communication and data exchange between two separate software systems.)

1. **Types of API Testing.**

* There are 3 types of API Testing:
* Open API: These types of APIs are publicly available to use like OAuth APIs from Google. It has also not given any restriction to use them.
* Partner APIs: Specific rights or licenses to access this type of API because they are not available to 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.

**(10) What is Responsive Testing?**

* Responsive testing is a process that ensures a website or web application works well on different devices.
* It involves testing the web site’s design, functionality and performance on various screen sizes, orientation and resolutions.

**(11) Which types of tools are available for Responsive Testing?**

* LT Browser
  + Lembda Testing
  + Google Resizer
  + I am responsive
  + Pixel tuner

**(12) What is the full form of. ipa, .apk?**

* Full form of
* .ipa: IOS Appstore Package
* .apk: Android Application Package/Kit

**(13) How to create step for to open the developer option mode ON?**

* To open developer option ON, the steps are as following:

1. Open Settings
2. Tap About Phone / About Device
3. Tap Software Info/ Version Info
4. Tap Build Number multiple times (7 times in a go)
5. Enter your security code if prompted
6. The Developer options menu will appear in your settings menu