**what is the responsive layout:** is a site or application design that responds to the environment in which it is viewed

**Dynamic webpage Development:** installation of PHP, MySQL, or MariaDB and Apache installation of IDE

**What is table in database:** a table is a set of data elements (values) using a model of vertical columns

**What is database**: It is a collection of data stored on a computer that is easy to access and update

**relational database management system (RDBMS):** is a set of programs that enable us to work with databases

**Structured query language (SQL):** is a programming language for storing and processing information in database

**what is website hosting with databases:** It is a service provided to the customer to store databases, which are often in the cloud

**SQL using:** 1-creating database 2-selecting database 3-Drop table 4-Joins

**More PHP**: 1-SMSgateway 2-URL rewriting 3-GD library 4-CRUD(MySQL)Grid

**Intranet:** intranet is a computer network for sharing information, transferring data, and other computing services

**MANs (Metropolitan area Networks):** This refers to a network of computers within a city.

**VPN (Virtual Private Network):** used for creating a secure connection between a computing device and a computer network to transfer data

**The client/ server network is the most efficient way to provide:**

1-Databases and management of applications

2-Network management.

3-Centralized file storage

**The OSI model:(Open Systems Interconnection):** is model describes seven layers that computer systems use to communicate over a network

1-Physical Layer 2-Data Link Layer 3-Network Layer 4-• Transport Layer

5-Session Layer 6-Presentation Layer 7-Application Layer

**What is a Network topology:** is the physical and logical arrangement of nodes and connections in a network

**Divided into three sections:**

**1-Bus network 2-Star network 3-Ring network**

**Adding Speed: While repeaters allow LANs to extend beyond usual distance limitations, they still limit the number of nodes that can be supported**

**Bridges:** The function of a bridge is to connect separate networks together

**Ethernet Switches:** Ethernet switches are an expansion of the concept of Ethernet bridging

**Hubs/ Repeaters:** used to connect together two or more Ethernet segments of any media type

**IP Address:** address is a unique identifier for a node or host connection on an IP network.