1. What is Data base? Explain with a Example on why should we need a database.

Ans:- Database mainly made from two word that data and base. So this a process of Storing a data is called data base.

for Example.

to process of login in PWSKills.com. means that when we enter email ad password it will go to dashbord means that email and password are store somewhere ie in database.

It is necessary ~~because~~ to store data because it can help for long time. that means when ever we want data we can easily fetch from database.

 Database

Q2. Write a short notes on file base storage system. Explain the major challenges of a file-based storage system.

→ File based Storage System is nothing but storing data into the file that is known as FBSS.

the major challenges of a FBSS is

(1) Redendancy : to store same data in multiple database.

(2) Security concerns.

(3) FBSS.

(5) Difficulty in ~~con~~ concurrent usage. (complex)

Q3. Explain 3 schema architecture along with its advantage.

→ Shema is a Blueprint of whole data base means that anything we have to do with the database in a one place that called is schema.

① Internal Schema
② Conceptual Schema
③ External Schema

① internal schema :- to identify that how data are store and retrieve in hardware.

② Conceptual Schema :- actually tells that the data set arrange in the form of a table and relation.

③ External schema :-

Advantage of three Schema

① To provide customize data for end user
② logical data independence
③ physical data independence.

Q4. what is DBMS? what was the need for DBMS?

→ It stand for database management system It is a software system that is designed to manage and organize data in a structured manner. It allow user to create, modify, and query a database.

(1 need because to organized data and manage data, and provide security. data integrity, consistency.

Q5. List out the different types of classification in DBMS and explain explain.

→ Database management system can be classified based on a variety of criteria such as the ~~data model~~

① data model
② database distribution
③ user number

→ The most widely used types of DBMS software are relational, distributed, hierarchical, object oriented, and network.

→ Distributed DBMS :- Set of logically interrelated database distributed over a network that is manage by ~~centrali~~ Centralized database. application.

Q6. what is significance of data modelling and explain the type of data modelling.

① Hierarchical data model :- data is organized into a tree like structure, implying a single parent for each record. Hierarchical data model is widely used in early mainframe ~~database~~ DBMS

② Network model :- expands upon the hierarchical structure, allowing many-to-many relationships in a tree like structure that allow multiple parents. in DBMS.