

Learning Outcomes Mapping

Fundamentals of Database Systems

(COMP1211)

CLO	Description	Questions			
		Q ₁	Q ₂	Q ₃	Q ₄
1.1	Defining the concepts of Database and Database systems.	√	√	√	√
1.2	Illustrating the processes and activities of designing relational database systems.	√	√	√	

Answer the following Questions:

[1] **Multiple Choice:-**

12X0.5 = 6 marks

- 1) Multimedia Database is _____
a) **a Database type** b) a Database functionality c) a Database Example d) Non
- 2) _____ is responsible for authorizing access to the database.
a) **database administrators** b) application programmers c) system analyst d) auditors
- 3) A _____ is an executing program or process that includes one or more database access.
a) **transaction** b) object c) procedure d) application
- 4) Storing same data in many places is called _____.
a) iteration b) **redundancy** c) concurrency d) enumeration
- 5) _____ is the ability to change the schema at one level of a database system without having to change the schema at next higher level.
a) data exchange b) data dependence c) **data independence** d) data binding
- 6) A state that satisfies the structure and constraints of a scheme is called _____ state.
a) invalid b) true c) real d) **valid**
- 7) DBMS combines everything into single system including- DBMS software, hardware, application programs and user interface processing software.
a) Distributed b) **Centralized** c) Client d) None
- 8) To change the physical file structure the _____ scheme needs to be changed
a) conceptual b) **physical** c) logical d) low-level
- 9) architectures are common for web applications
a) One tier b) Two tiers c) **Three tires** d) Centralized
- 10) _____ language is used to do insertion, deletion, retrieval, and modification of data.
a) VDL b) SDL c) DDL d) **DML**
- 11) _____ language is used to specify the internal schema.
a) VDL b) **SDL** c) DDL d) DML
- 12) Security is a typical DBMS function aims to protect databases from _____.
a) Data Visualization b) **Unauthorized access** c) Data loss d) Non

[2] Short Answer Questions**2X1 = 2 marks****A. List some of specialized Servers with Specialized functions.**

1. File Server
2. Mail Server
3. Web Server
4. DBMS Server

B. Give some examples of computerized database.

1. Banks
2. Hospitals
3. Universities
4. Supermarket

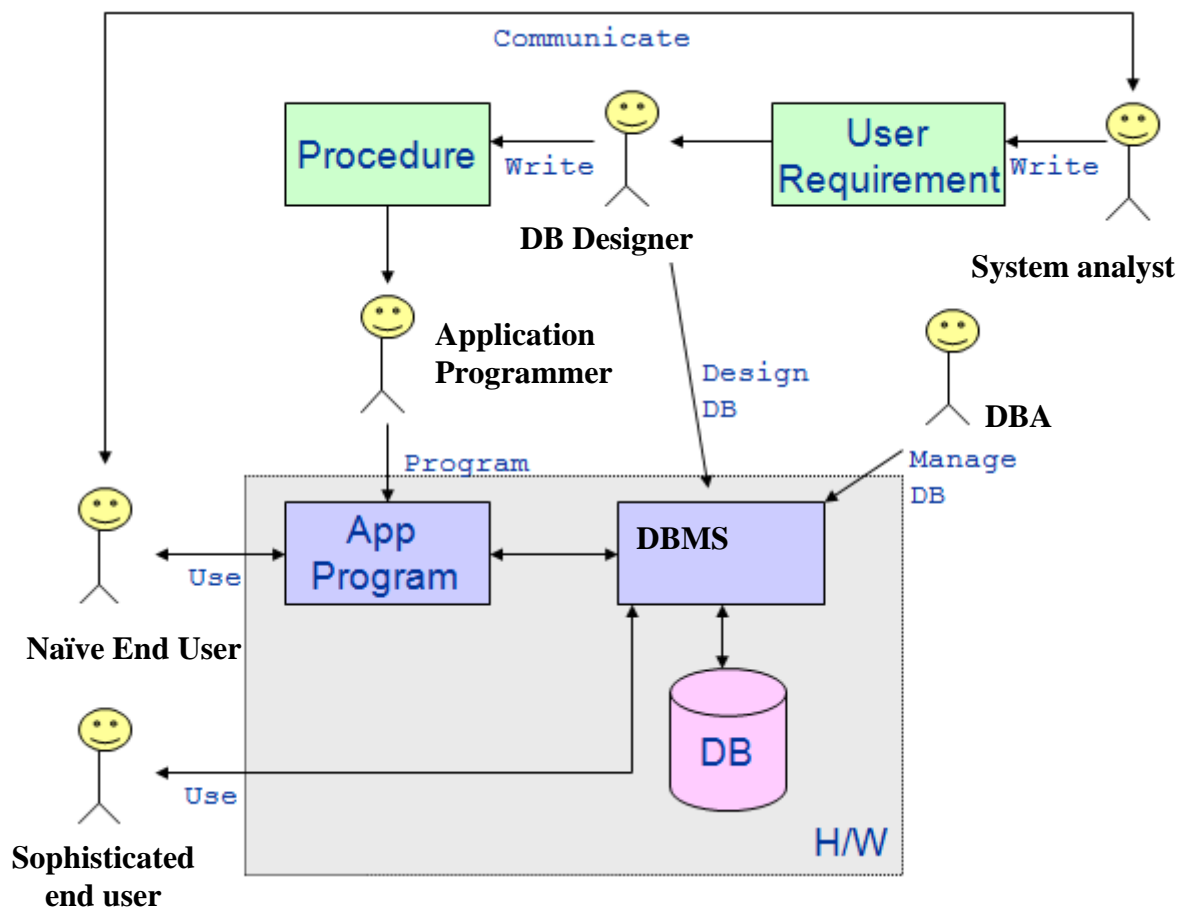
[3] TRUE or FALSE:**8X0.5 = 4 marks**

- 1) Database schema changes very frequently. (T / F)
- 2) The database state is also called an instance of database. (T / F)
- 3) DBMS cannot protect hardware and software malfunction. (T / F)
- 4) Conceptual model is hardware independent and software independent. (T / F)
- 5) View is a subset of database. (T / F)
- 6) Naïve users do canned transactions. (T / F)
- 7) DBMS is a collection of related data. (T / F)
- 8) Application programmer determines the requirements of end-users and develops specifications for those requirements. (T / F)

[4] In the figure shown below, fill in the blanks using the following words:

(DB designer – Application programmer – Naïve End User– casual users – DBMS – Sophisticated end user – DA – System analyst – DBA – DB system)

Question 4 (3 marks)



...End of questions...