Question 1 (1 point) Saving \$	
Partial participation means the entity must participate in the relations	ship.
☐ True	
False	
Next Page	Page 1 of 30
Question 2 (1 point) Saved	
Relationships can not have attributes	
• True	
False	
Next Page	Page 2 of 30
Question 3 (1 point) ✓ Saved	
This type of attribute is determined from another attribute type.	
composite	
• derived	
multi-value	
simple	
Next Page	Page 3 of 30

Question 4 (1 point)
What type of DML specifies how to navigate the database, record at a time?
Procedural DML
Next Page 4 of 30
Question 5 (1 point) Saving Which piece of a DBMS is responsible for setting up a connection to the database.
ODL Compiler
Storage Manager
Query Processor
OBMS Interfaces
OBMS Utilities
Connection and Security Manager
Next Page 5 of 30

Question 6 (4 points) Saved	
What 4 pieces does the storage manager consist of?	
Transaction Manager	
Buffer Manager	
Lock Manager	
Recovery Manager	
Next Page	Page 6 of 30
Question 7 (1 point) Saved Which piece of a DBMS is responsible for handling physical file access.	
Connection and Security Manager	
OBMS Utilities	
Storage Manager	
ODL Compiler	
Query Processor	
OBMS Interfaces	

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	This type of data model is typically used to store big and unstructured	data.
	● NoSQL	
	hierarchical	
	XML	
	relational	
	Next Page	Page 8 of 30
	Question 9 (1 point) Saved Which is NOT a NoSQL database	
	○ Neo4J	
	Hadoop	
	MongoDB	
	HANA	
	Next Page	Page 9 of 30
Q	Question 10 (1 point)	
	What type of DML specifies what data should be retrieved set at a tin	ne?
	Declarative DML	
	Next Page	Page 10 of 30

Question 8 (1 point)

Saved

Question 1	11 (2	points)	\checkmark	Saved
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Briefly explain what is the impedance mismatch problem.

The impeda Oriented la	ance mismatch problem is the mapping between relational concept anguages/	s and Object
Next Page		Page 11 of 30
uestion 12 (1 point) Saving 💲	
OLAP databa	ase server must be able to process many small simple trans	sactions.
True		
False		
Next Page		Page 12 of 30

Question 13 (1 point)	
Which piece of a DBMS is responsible for translating data definition format.	ons to an internal
Storage Manager	
Connection and Security Manager	
DDL Compiler	
Query Processor	
OBMS Interfaces	
OBMS Utilities	
Next Page	Page 13 of 30
Question 14 (1 point) ✓ Saved	
The transaction manager guarantees what properties	
BASE	
○ N	
ACID	
Neutral	
Next Page	Page 14 of 30

Quest	ion	15	(1	р	oi	nt	t)

What is	issued at	the end	of a	transaction	on unsuccess	ful execution?
---------	-----------	---------	------	-------------	--------------	----------------

	vvnat is issu	ed at the end	or a tran	isactio	n on ur	isucces	stul exe	cution:		
	Rollback									
	Next Page								Page :	15 of 30
Q	uestion 16	(1 point)	Saving	\$						
		of the databa e transaction?	se is res	ponsib	le for s	upervis	ing the	correct	execution	on of
	Recovery	y Manager								
	Query E	xecutor								
	Query O	ptimizer								
	O Lock Ma	nager								
	Next Page								Page 1	6 of 30

Question 17 (1 point)	
Which part of the query processor optimizes the query, independently database state.	of the
query optimizer	
• query rewriter	
query parser	
OML compiler	
Next Page	Page 17 of 30
Question 18 (1 point) Saving \$	
Which of these is not a possible architecture of a DBMS.	
Cloud	
○ federated	
in-memory	
all of these are possible	
Next Page	Page 18 of 30

True

False

Next Page

What are four different categorizations of DBMSs. Be brief.

The four different categorizations of DBMSs are

1- based on data model

2- based on degree of simultaneous access

3- based on architecture

4- based on usage|

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Question 20 (1 point)

Saved

Selecting a database system / architecture is often a matter of personal choice, not on the features of the database.

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Question 21 (4 points)	
List four DBMS interfaces	
Web-based	
Command line	
Graphical user	
Network	
Next Page	Page 21 of 30
Question 22 (1 point) Saved	
This type of data model uses a tree like structure.	
Object-oriented	
relational	
hierarchical	
network	
Next Page	Page 22 of 30

Question 23 (1 point) Saved This type of data model is currently the most popular in industry.	
hierarchical	
XML	
NoSQL	
relational	
Next Page	Page 23 of 30
Question 24 (1 point) Saving \$	
Entity types can have an ambiguous meaning.	
☐ True	
False	
Next Page	Page 24 of 30

Question 25 (1 point) ✓ Saved	
Email address would usually be considered what type of attribute?	
composite	
derived	
multi-value	
simple	
Next Page	Page 25 of 30
Question 26 (1 point) ✓ Saved	
Two entities can have the same key values.	
True	
False	
Next Page	Page 26 of 30

Question 27 (1 point)	Saving	\$		
This type of attribute can types.	not be de	ecomposed into	smaller meaningfu	l attribute
composite				
derived				
multi-value				
• simple				
Next Page				Page 27 of 30
Question 28 (1 point) All of the following are dis			except	
participation				
keys				
domains				
cardinalities				
Next Page				Page 28 of 30

Question 29 (1 point)	Saving	\$			
This specifies the set	of values that	t may be as	signed to an er	ntities attribute	es.
domain					
type system					
data types					
value range					
Next Page				Pag	ge 29 of 30
Question 30 (1 point)	✓ Saved				
Entity is an occurrence	ce of an entity	type.			
True					
False					
Next Page				Pag	ge 30 of 30