## **Assignments - Introduction to DBMS**

1.	The persistent property of databases indicates	1 point
	O Data reside in volatile memory erased when user interaction completes.	
	O Applications using a database never fail.	
	Data reside on stable storage as the long-term memory of an organization.	
	O Data requires appropriate authorization for modification and retrieval.	
2.	The inter-related property of databases indicates	1 point
	O Entities exist independently without relationships to other entities.	
	<ul> <li>Databases maintain connections or relationships among entities to store business interactions.</li> </ul>	
	O Entities exist independently except when required for applications.	
	O Databases maintain connections among applications using entities.	
3.	The shared property of databases indicates	1 point
	O Databases can have multiple users and uses (applications).	
	Each entity in a database can only have one active user.	
	Organizations forfeit access controls to databases.	
	Organizations must grant open access to databases.	
4.	What is the meaning of the SQL acronym?	1 point
	O Sequel	
	O Structured Quotient Lingo	
	O Super Query Language	
	Structured Query Language	

5.	Idei	ntify important DBMS features. More than one answer is possible.	1 point
	<b>~</b>	Non procedural access	
	<b>~</b>	Data definition	
	<b>~</b>	Transaction processing	
		Workflow definition	
6.	Indi	icate the work emphasis of a database administrator. More than one answer is possible.	1 point
	<b>~</b>	Focused on individual databases	
	<b>~</b>	Primary role for data planning	
	<b>~</b>	Requires skills and knowledge of specific DBMSs	
		Primary role for setting data standards for an organization	
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	<b>~</b>	Primary role for data planning	
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	<b>~</b>	Primary role for setting data standards for an organization	
8.	Wha	at is an enterprise DBMS?	1 point
	0	Supports small workgroups with modest performance and reliability capabilities	
	<ul><li>•</li></ul>	Resides in a larger system, either an application or a device with limited transaction processing, memory, processing, and storage.	
	0	Ssupports mission critical information systems with high performance for storage, transaction processing, and scalability.	
	0	Supports servers for website usage	

9. Wh	at is a desktop DBMS?	1 point
<b>O</b>	Supports small workgroups with modest performance and reliability capabilities	
0	Resides in a larger system, either an application or a device with limited transaction processing, memory, processing, and storage.	
0	Supports mission critical information systems with high performance for storage, transaction processing, and scalability.	
0	Supports servers for website usage	
<b>L0.</b> Wh	at is an embedded DBMS?	1 point
0	Supports small workgroups with modest performance and reliability capabilities	
0	Resides in a larger system, either an application or a device with limited transaction processing, memory, processing, and storage.	
0	Supports mission critical information systems with high performance for storage, transaction processing, and scalability.	
<b>()</b>	Supports servers for website usage	
<b>©</b>	) True ) False	
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12. 00	vat tools do enterprise DRMSs provide for non-procedural access? More than one answer is possible	4 1 4
	nat tools do enterprise DBMSs provide for non-procedural access? More than one answer is possible.	1 point
~	the SQL SELECT statement	1 point
<u> </u>	the SQL SELECT statement  Graphical tools such as the Query Builder tool in the Oracle SQL Developer	1 point
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14. Indicate reasons that organizations use database programming languages. More than one reason is possible.	1 point
✓ Batch processing especially for big data tasks	
Customization especially for ecommerce and automation	
Data visualization for business analysts	
✓ Modularization to organize code performing database retrieval and modification	
<b>15.</b> What statements are true about database transactions. More than one answer is possible.	1 point
Support daily operations of an organization	
A database transaction consists of a collection of database operations to read and write to a database.	
A transaction consists of a single database operation.	
✓ A DBMS reliably and efficiently processes each transaction as one unit of work.	
<ul><li>16. Identify services provided in database transaction processing. More than one answer is possible.</li><li>✓ Optimized processing of SQL SELECT statements</li></ul>	1 point
Control of interference among concurrent users	
Recovery from failures without loss of completed transactions	
✓ Query modification	
17. Identify decision making levels with primary support by data warehouses. More than one answer is possible.	1 point
✓ Lower (operational) decisions such as resolving a shipping delay	
✓ Middle (tactical) decisions such as sales forecasting	
Top (strategic) decisions such as identifying new markets	
☐ Micro (sub operational) decisions such as packet routing	

<b>18.</b> Identify characteristics of data warehouses. More than one answer is possible.	1 point
Populated from operational databases and external data sources	
Optimized for efficient and reliable processing of large volumes of daily transactions.	
Transformations and integrations performed to support decision making	
Optimized for reporting that summarizes large amounts of data	
19. Indicate characteristics of fourth generation DBMS products.	1 point
Object-oriented, NoSQL	
Relational with non-procedural access	
O Navigational	
O File-oriented	
19. Indicate characteristics of fourth generation DBMS products.	1 point
Object-oriented, NoSQL	
Relational with non-procedural access	
O Navigational	
○ File-oriented	
20. Indicate recent areas of development for database technology. More than one answer is possible.	1 point
Business intelligence processing	
☐ Initial development of optimizing database compilers	
✓ Cloud computing	
Optimization for big data demands	
Upgrade to submit	