Seat No.:	

MM-109

March-2019

B.C.A., Sem.-VI

CC-308: Database Administration

Tin	ne : 2:3	30 Ho	urs]			[Max. Marks: 70		
1.	(A)	Ansv	Answer the following:					
		(i)	Exp	lain in detail: Oracle Database	Structure	e. 7		
		(ii)	Exp	lain: Client-server Architecture	e and Mu	alti-tier Architecture. 7		
				OR				
		(i)	Disc	euss : The different types	of or	acle users. Also discuss the		
			resp	onsibilities of database admini	strator.			
		(ii)	Wha	nt is a tablespace? Explain the	e differen	t types of tablespaces in detail.		
	(B)	Ansv	wer ar	ny four :		4		
	(-)	(1)			Oracle	database server and front-end		
			appl	ications.				
			(a)	Security Consultants	(b)	Database Administrator		
			(c)	Application Developer	(d)	Security administrator		
		(2)		is a system privilege for o	database	administrator.		
			(a)	SYSTEM	(b)	SYS		
			(c)	SYSDBA	(d)	All of above.		
		(3)	Which of the operations can be performed by SYSOPER system privileg					
			(a)	STARTUP	(b)	SHUTDOWN		
			(c)	CREATE SPFILE	(d)	All of above		
		(4)	is defined as virtual table that derives data from one or more table					
		. ,		Table	(b)	Indexes		
			(c)	Views	(d)	All of above		
		(5)	5) is defined as a shared memory that contains the data and contro					
			info	rmation about a single Oracle	instance.			
			(a)	SGA	(b)	PGA		
			(c)	Both (a) and (b)	(d)	None		

(b) The process is responsible for copying the online									
			stora	age device when	Redo log files bed	come	e full.		
			(a)	ARCH		(b)	DBWR		
			(c)	LGWR		(d)	CKPT		
2.	(A)	Ans	wer th	e following:					
		(i)	What are control files? Discuss the considerations for managing the control files.						
		(ii)							
		()	OR						
		(i)							
		(ii)	What are database roles? What are the different types of database roles that						
			oracle supports? Also discuss the system level roles.						
	(B)	Ans	Answer any four :						
		(1)		are the right	that enables datab	ase ı	users to run the SQL statements.		
			(a)	Profiles		(b)	Roles		
			(c)	Privileges		(d)	Users		
		(2)		, in Orac	le, is a database	user	who can access and work with		
			(a)	Profile		(b)	Role		
			(c)	Privilege		(d)	User		
		(3)	ant system privilege or role to						
			(a)	PRIVATE		(b)	REVOKE		
			(c)	PUBLIC		(d)	GRANT		
		(4)	Orac	cle records all th	e changes for a da	tabas	se in the files.		
			(a)	Redo Log		(b)	Control		
			(c)	Data		(d)	None of above		
		(5)	The files are generated automatically when the database is created.						
			(a)	Redo Log		(b)	Control		
			(c)	Data		(d)	None of above		
		(6)	Eacl	h database has a	t least one tablespa	ace n	amely		
			(a)	SYS		(b)	Both (a) and (c)		
			(c)	SYSTEM		(d)	None of above		

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3.	(A)	Ansv	wer th	e following:						
		(i)	Exp	lain :						
			(1)	B-Tree index						
			(2)	Bitmap index						
			(3)	Function-based index			7			
		(ii)	Exp	lain Clusters in detail.			7			
			OR							
		(i)	Wha	at is partitioning? How	does partition	ing increase manageability?				
		(ii)	What is meant by rebuilding indexes? Also explain the importance of index validation.							
	(B)	Ansv	Answer any three:							
		(1)		is a method to free lea	of blocks for re	use.				
			(a)	Rebuilding	(b)	Coalescing				
			(c)	Partitioning	(d)	None of above				
		(2)	—— poin	refers to performing ats to the correct row of		nfirm that every entry in the index table.				
			(a)	Index Rebuilding	(b)	Index Validation				
			(c)	Index Monitoring	(d)	Index Coalescing				
		(3)	A is a group of tables that share the same data block.							
			(a)	Index	(b)	Non-unique index				
			(c)	Cluster	(d)	None of above				
		(4) indexes are indexes that can be created on multiple columns of a								
	(a) Composite (b)		Unique							
			(c)	Bitmap	(d)	Reverse				
	(5) indexes are B-Tree indexes in which the key column									
			reve	rsed while keeping the	column order.					
			(a)	Composite	(b)	Unique				
			(c)	Bitmap	(d)	Reverse				
4.	(A)	Ansv	wer th	e following:						
		(i)	What is optimizer? State and explain the two types of Optimizers.							
		(ii)	Wha	at is tuning? How can y OR	ou tune memo	ory usage?	7			
		(i)	Wha		ta backup ? A	Also explain physical and logical				
			back	cups.						
		(ii)	What is meant by data recovery ? Explain the different types of recovery methods.							

(B)	Ansv	nswer any three:								
	(1)	Which are the different data structures provided by Oracle, to recover the								
		data ?								
		(a)	Online Redo	logs						
		(b)	Roll-back and	l undo segments						
		(c)) Control Files							
		(d)	(d) All of above							
	(2)		reads the o	content of the ex	xport d	lump file and executes the SQL				
		com		the export file.						
		(a)	Import utility		(b)	Export utility				
		(c)	tablespace		(d)	None of above				
	(3)	The	The plan is an algorithm for retrieving data from the database.							
		(a)	execution		(b)	explain				
		(c)	optimal		(d)	tuning				
	(4)		refers to all	the tasks that are	perfor	med to improve the performance				
		of th	e database.							
		(a)	Optimizers		(b)	Tuning				
		(c)	Data Recover	у	(d)	Data backup				
	(5)	Tuning the involves grouping the database objects on the basis of								
		their space usage.								
		(a)	Physical Stora	age	(b)	Memory usage				
		(c)	Logical Stora	ge	(d)	None of above				

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