

XW-115

Seat No.: 1099

P.T.O.

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April-2013

B.C.A. (Sem.-IV) CC-208 DATABASE MANAGEMENT SYSTEM - II

[Max. Marks: 70 Time: 3 Hours] Instruction: Write new question from new page. Explain the following commands giving example: ALTER CREATE (b) (a) DELETE (d) DROP (c) What is a virtual table? State its purpose. Give an example of its syntax. (2)OR Explain the different SQL constraint's. (1) 3 Discuss the SQL data types. (2)Discuss special operators giving example: (B) (1) BETWEEN LIKE (a) (b) **EXISTS** IN (d) (c) What are Aliases? How are they used in SQL queries? 3 (2)OR Discuss the use of ORDER BY and GROUP BY. (1)Discuss the functions COUNT, MAX and SUM. (2)Explain with diagram the BI framework. 2. (A) (1)What is Business Intelligence? Discuss the general steps involved in BI. 3 (2)OR Differentiate operational data and decision support data. (1) Discuss the basic BI architectural components. (2) What is Data warehouse and what are its main characteristics? (B) (2)Describe the decision support database requirements. OR What is OLAP and what are its main characteristics? What is Data Mining? Discuss the different phases in the data mining process.

3.	(A)	(1)	Wh	at is D	DBMS? Sta	te its advantages	and disadv	antages.	The Park of	4
		(2)	Diff	ferentia	ate between I	Distributed datab	ase and Di	stributed proc	essing.	3
						OR				
		(1)	Disc	cuss:	(a) Multiple	e-site processing	and Single	-site data (M	PSD)	
	(b) Multiple-site processing and Multiple-site data (l							MPMD)	4	
		(2)	Exp	lain th	e component	s of DDBMS.				3
	(B)	(1)			Distribution n transparence	transparency	? Explain	the differe	ent types of	4
		(2)	Exp	lain the	e Two-phase	commit protoco	1.			3
						OR				
	(1) Describe the different types of database requests and transactions.								is.	4
		(2)	Disc	cuss Qu	ery optimiza	ation.				3
4.	(A)	(1)	Exp	lain DA	ATE & TIMI	E functions.				4
		(2)	Wha	at is Cr	oss Join ? Gi	ve an example o	f its syntax			3
						OR				
		(1)	Give	en the	tables stude	nt-1 and studen	t-2 perform	the following	ing relational	
			oper	ators a	nd show the	output :				4
			(a)	UNIC	ON		(b) UN	TION ALL		
4	N. C.		(c)		US (student1	- student2)		TERSECT		
				udent-			Studen			
			St	u_id	Stu_name	Stu phone	Stu_id		Stu_phone	
			-	2	Smith	3456	5	Smith	1234	
				3	Komal	8765	6	Anu Smita	3333 6666	
				4	Ajay	4444	4	Ajay	4444	
				,	11,00	1111	7	Shreya	9999	
		(2)	What	t is an	Oracle seque	nce ?Write its sy	ntax	omoja		3
		(-)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		oranie seque	nee . write no by	TITUTE!			3
	(B)	(1)	Discu	uss Out	ter joins.					4
		(2)	Write	the of	itput for the	following querie	es:			3
			(a)	SELE	CT SUBSTI	R ('EXPIRATIO	N', 5, 3) F	ROM DUAL	;	
			(b)	SELE	CT CEIL (10	0.34) FROM DU	JAL;			
			(c)	SELE	CT FLOOR	(21.68) FROM I	DUAL;			
						OR				
	(1) What is Subquery and list its basic characteristics? Discuss IN subqu									4
1	(2) Explain the following functions with example:								3	
-			(a)		UMBER					77.0
11			100	-						
			(D)	LENG	TH					
				LENG ABS	TH					

A)	Fill in	the blanks:
	(1)	SQL is a language.
	(2)	is a group of database objects.
	(3)	Join operations are classified as and
	(4)	OLAP stands for
	(5)	In distributed database system, database is composed of several parts known as
	(6)	is a small, single-subject data warehouse subset that provides decision support to small group of people.
	(7)	Query optimization algorithms are classified as and
(B)	Stat	e True/False :
	(1)	DDL stands for data definition language.
	(2)	CHAR data type can have fixed length character data upto 250 characters.
	(3)	The default order in ORDER BY clause is ascending.
	(4)	TO_DATE function returns today's date.
	(5)	Heterogeneity transparency allows integration of several different local DBMSs.
	(6)	MDM stands for Multiple Database Management.
	(7)	Distributed processing requires distributed database, but distributed database does not require distributed processing.