Paper / Subject Code: 88906 / Elective - II Advance Database System

T.E. SEM VI / COMP / CHOICE BASE / MAY 2019 / 03.06.2019

	Time: 3 Hours	Total Marks: 80
N.B. (1) Question No. 1 is compulsory		
(2)Assume suitable data if necessar	y	L.G. C.
(3)Attempt any three questions from	n remaining questions	*(EXAM)*
1		TANGER (20)
(a) List and explain operation on file	es.	O, KA
(b) Explain various join operations.		
(c) List and explain allocation technic	iques for distributed database	es.
(d) What is the need of object oriented		
(e) Enumerate the security issues inv	volved in database design.	
2 (a) Explain heuristic query optimization	n with given example:	(10)
Select e_lname	ioat n	
from employee e, works_on w, proj	[18] [18] [18] [18] [18] [18] [18] [18]	
where p.name="database" and p.nu e.essn=w.ssn and e.bdate >"1997-1"	강아일 사람이 되었다면서 가게 하는데 아이를 되었다면 하는데 그 모든데 하다.	
		(10)
(b) Explain concurrency control in distr	nouted database.	(10)
3 (a) Consider the following database tha	at has to be distributed:	(10)
Proj (PNO, PNAME, BUDGET)		
PAY (TITLE, SALARY)		
EMP (ENO, ENAME, SALARY)		
ASG (ENO, PNO, RESPONSIBIL	ITY, DURATION)	
(i) Show 2 examples of horizon		
(ii) Show 2 examples of vertical		
(iii) Show 1 example of derived		
(b) Give difference between Document	Oriented Database and Trac	litional Database. (10)
4 (a) What are the steps involved in query	y processing? Why queries a	re to be optimized? (10)
With an example explain how quer	ries are optimized.	
(b) Draw and explain mobile computing	g architecture with respect to	mobile database. (10)
5 (a) Explain hashing techniques in detail	1.	(10)
(b) Explain discretionary access contro	ol based on granting and revo	oking privileges. (10)
6 Write short note on (any two)		(20)
(a) Measures of query cost		
(b) Two phase commit protocol		
(c) Document oriented database		
(d) Multimedia databases		

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