Diplete - CS (NEW SCHEME) - Code: DC62

Subject: DATABASE MANAGEMENT SYSTEMS

Time: 3 Hours

DECEMBER 2010

62 Max. Marks: 100

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after half an hour of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 10 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

Q.1	Choose the correct or the best alternative in the following: a. A query that combines Rows from one or more tables is called				
	(A) Union	(B) Join			
	(C) Query	(D) None of the above			
	b. Temporary table given along with a table name in FORM clause is called				
	(A) Sub Query	(B) Natural Join			
	(C) Table Alias	(D) None of the above			
	c. What is the degree of a table with 1000 rows and 10 columns?				
	(A) 10	(B) 100			
	(C) 1000	(D) None of the above			
	d. The Join in which table are compared for equality is called				
	(A) Equi Join	(B) Self Join			
	(C) Outer Join	(D) None of the above			
	e. Basic unit of storage in RDBMS is				
	(A) Index	(B) Query			
	(C) Table	(D) None of the above			
	f. Which of the following commands is used to get all the columns in a table?				
	(A) #	(B) *			
	(C) %	(D) @			
	g. A is a unique series of number that can be used to generate Prin Key.				
	(A) Sequence	(B) Index			
	(C) View	(D) Synonym			

				E.
	h.	Which of the following is used to eval	uate a query execution strategy?	den
			(B) Access plan (D) None of the above	CHILDERY
	i.	i. What is the alternate name for a database table ?		
			(B) Index (D) None of the above	
	j.	j are the files that keep track of location of each row or group of roin a table.		
			(B) Object (D) Synonym	
		Answer any FIVE Questions o Each question carr	-	
Q.2	a.	Explain the Advantages of DBMS?		(8)
	b.	Explain the three schemas Architectu	re with the help of diagram?	(8)
Q.3	a.	(iii) Alternate Key (v) Referential Integrity	f suitable example:- (ii) Insert command (iv) Foreign Key (vi) Logical Operators (viii) Natural Join	(16)
Q.4	a.	what is normalization? Explain Bo suitable example?	yce-codd normal form with the	help of (8)
	b.	What are the difference between Dependencies?	een functional, Multivalued a	nd Join (8)
Q.5	a.	What do you mean by hashing? Expla	ain the hashing techniques.	(6)
	b.	What do you mean by indexing? Exp	lain the types of indexing.	(6)
	c.	What do you mean by B trees and B	trees?	(4)
Q.6	a.	Describe the guidelines for relation so	chemas.	(8)
	b.	Differentiate 2 nd and 3 rd normal forms	s with example.	(8)
Q.7	a.	What is rollback? Why it is performing the rollback operation in		ands for (10)

Student Bounty Com b. What do you mean by View? Justify your answer with the help of command.

0.8 Consider the following table:

WORKS (Pname, Cname, Salary) LIVES (Pname, Street, City) LOCATED-IN (Cname, City) MANAGER (Pname, Mgrname)

Write the SQL for the following:

- (i) List the names of the people who work for the company Wipro along with the cities they live in.
- (ii) Find the people who work for the company 'Infosys' with a salary more than Rs.50,000/-. List the names of the people, along with the street and city addresses.
- (iii) Find the names of the persons who live and work in the same city.
- (iv) Find the names of the persons who do not work for 'Infosys'.
- (v) Find the persons whose salaries are more than that of all of the 'Oracle' employees.
- (vi) Find the names of the companies that are located in every city where the company 'Infosys' is located. **(16)**
- **Q.9** a. What do you mean by Synonyms? Explain the type of Synonyms. **(6)**
 - b. Differentiate between Char and Varchar data types. **(4)**
 - c. What do you mean by Entity Relationship model? Also explain the types of relationships.