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Third Semester MCA Degree Examination, June/July 2013

Database Management Systems

Tir	ne:	3 hrs.	Max. Marks:100
		Note: Answer any FIVE full questions.	
1	a.	Define database and the characteristics of database approach.	(09 Montro
_	b.	With a neat diagram, explain the architecture of DBMS.	(08 Marks
	c.	Explain briefly schema change statements in SQL.	(08 Marks) (04 Marks)
		range statements in SQL.	(U4 MAINS
2	a.	Explain with an example the structure of basic query in SQL.	(10 Marks
	b.	Discuss the algorithm of ER-to-Relational mapping.	(10 Marks
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3	a.	With a suitable example, explain the aggregate functions in SQL.	(06 Marks
	b.	What are attribute data types in SQL?	(04 Marks
	c.	Explain the anomalies due to interleaved execution.	(10 Marks
4	a.	What is normalization? Why normalization is required?	(06 Marks)
	b.	What are views? Specify some problems when views are updated.	(06 Marks
	c.	Write a note on crash recovery.	(08 Marks
5	a.	Consider the following relational schema. Write the SQL queries for the WORKS (Emp_name, Comp_name, Salary, Ph_num) LIVESIN (Emp_name, Street, city) LOCATED_IN (Comp_name, City) MANAGER_OF (Mgr_name, Emp_name) i) Find the names of the employees, who live and work in the same city	ity.
		ii) Find the names of the employees, who do not work for the compan	v "SRM"
		iii) Find the names of the employees and their salary, whose manager i	
		iv) Delete all employees, who work for the company "SBM".	is "Fleming". (10 Marks)
	b.		is "Fleming". (10 Marks)
6		iv) Delete all employees, who work for the company "SBM". With an example, explain PROJECT command.	is "Fleming". (10 Marks) (10 Marks)
6	a.	iv) Delete all employees, who work for the company "SBM". With an example, explain PROJECT command. What are the set operations in SQL? Explain.	is "Fleming". (10 Marks) (10 Marks) (10 Marks)
6		iv) Delete all employees, who work for the company "SBM". With an example, explain PROJECT command.	is "Fleming". (10 Marks) (10 Marks) (10 Marks)
	a. b.	iv) Delete all employees, who work for the company "SBM". With an example, explain PROJECT command. What are the set operations in SQL? Explain. Explain ACID properties.	is "Fleming". (10 Marks) (10 Marks) (10 Marks) (10 Marks)
6	a.	iv) Delete all employees, who work for the company "SBM". With an example, explain PROJECT command. What are the set operations in SQL? Explain. Explain ACID properties. Define functional dependency. Write all its inference rules.	is "Fleming". (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)
	a. b. a.	iv) Delete all employees, who work for the company "SBM". With an example, explain PROJECT command. What are the set operations in SQL? Explain. Explain ACID properties.	is "Fleming". (10 Marks) (10 Marks) (10 Marks) (10 Marks)
	a. b. a.	iv) Delete all employees, who work for the company "SBM". With an example, explain PROJECT command. What are the set operations in SQL? Explain. Explain ACID properties. Define functional dependency. Write all its inference rules.	is "Fleming". (10 Marks) (10 Marks) (10 Marks) (10 Marks)
7	a. b. a.	iv) Delete all employees, who work for the company "SBM". With an example, explain PROJECT command. What are the set operations in SQL? Explain. Explain ACID properties. Define functional dependency. Write all its inference rules. Give brief note on different types of JOINS.	is "Fleming". (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)
7	a. b. a. b.	iv) Delete all employees, who work for the company "SBM". With an example, explain PROJECT command. What are the set operations in SQL? Explain. Explain ACID properties. Define functional dependency. Write all its inference rules. Give brief note on different types of JOINS. Write short notes on:	is "Fleming". (10 Marks) (10 Marks) (10 Marks) (10 Marks)
7	a. b. a. b.	iv) Delete all employees, who work for the company "SBM". With an example, explain PROJECT command. What are the set operations in SQL? Explain. Explain ACID properties. Define functional dependency. Write all its inference rules. Give brief note on different types of JOINS. Write short notes on: Triggers in SQL	

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