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Seat N	Seat No.: Enrolment No													
	GUJARAT TECHNOLOGICAL UNIVERSITY													
M.B.A SEMESTER – III • EXAMINATION – WINTER 2012														
Subject code: 2830401 Date: 11-01-2013														
Subject Name: Database Management (DM)														
	Time: 10:30 pm – 01:30 pm Total Marks: 70													
Instructions:														
		Attempt all questions.												
		Make suitable assumptions wherever necessary.												
	<b>J.</b> I	Figures to the right indicate full marks.												
Q.1	<b>(a)</b>	What is difference between conventional file System & Database management	07											
		system. Explain what are the benefits of the database approach over												
	<b>a</b> \	conventional file system.	~-											
	<b>(b</b> )	What do you understand by relationship? What is the degree of a relationship?	07											
		Explain in brief the three types of relationship degrees and give an example of each.												
Q.2	(a)	Consider the following tables:	07											
C		Employee (Emp_no, Name, Emp_city)												
		Company (Emp_no, Company_name, Salary)												
		i. Write a SQL query to display Employee name and company name.												
		ii. Write a SQL query to display employee name, employee city ,company name and salary of all the employees whose salary >10000												
		iii. Write a query to display all the employees working in 'XYZ' company.												
	<b>(b)</b>	Explain triggers and routines? What are the different types of trigger? Discuss	07											
		in brief the advantages of routines.												
		OR												
	<b>(b</b> )	Explain the following terns:	07											
Q.3	(a)	i. Supertype ii. Composite key iii. Normalization Differentiate between the following:	07											
Q.J	(a)	1. Dynamic view & materialized view	07											
		2. Primary Key & Candidate Key.												
	<b>(b)</b>	Explain in brief the major components in a database system environment.	07											
		OR												
Q.3	(a)	What is the difference between COUNT, COUNT DISTINCT, and COUNT(*)	03											
		in SQL? When will these three commands generate the same and different results?												
	<b>(b</b> )	Describe the advantages and disadvantage of database server.	07											
Q.4	(a)	What is three-tier architecture? What are the different benefits of three-tier	07											
Ľ		architecture? Explain in brief the challenges associated with three-tier												
		architecture.												
	<b>(b</b> )	Explain how each of the following types of integrity constraints are enforced in	07											
		the SQL CREATE TABLE commands:												
		i. Entity integrity ii. Referential integrity <b>OR</b>												
Q.4	(a)	Write short notes on:	07											
<b>L</b>	()	i. Network model ii. Hierarchical model												
Q.4	<b>(b</b> )	What is join? Explain in brief the various types of joins.	07											
Q.5	(a)	Explain the advantages and disadvantages of QBE compared to SQL	07											
	<b>(b</b> )	Explain in brief the various techniques used to tune the operational	07											
		performance of relational database internal data model. OR												
Q.5	(a)	What is entity-relationship model (E-R model). What are different E-R model	07											
×		notations? Explain in brief the basic constructs of E-R model.												
	<b>(b)</b>	Describe six categories of middleware	07											
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