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SARDAR PATEL UNIVERSITY

M. Sc. (IT) Integrated External Examination

Semester-IV

Relational Database Management System-II (PS04CIIT04)

		(Saturday) M to 01:30 PM	Total Marks: 7
	Choos	so the most appropriate answer from the given entions	
	(1)	se the most appropriate answer from the given options. Normalization is a process of restructuring a relation to	
	(1)	(a) minimize duplication of data in a database	
		(b) maximize duplication of data to ensure reliability	
		(c) make it of uniform size	
		(d) allow addition of data	
	(2)	Which of the following is not true?	
	(-)	(a) Normalization reduces duplication.	
		(b) Normalization reduces anomalies.	
		(c) Normalization is the process of designing the application process	rograms
		(d) All of above.	9.4
	(3)	The attribute is used to declare a variable based on definition o table.	f column in a
		(a) %ROWTYPE	
		(b) %TYPE	
		(c) %ROW	
		(d) %COLUMNTYPE	
	(4)	The section deals with handling of errors in PL/SQL code block	•
		(a) Exception	
		(b) Declaration	
		(c) End	
	(5)	(d) Error	
	(5)	The section is compulsory in PL/SQL block.	
		(a) Exception	
		(b) Begin (c) Declare	
		(d) None of these	
	(6)	Fetch statement retrieves row(s) at a time.	
	(0)	(a) one	
		(b) two	
		(c) three	
		(d) more than three	
	(7)	Which of the following is not a cursor attribute?	
	. ,	(a) %ROWTYPE	
		(b) %FOUND	
		(c) %ROWCOUNT	
		(d) %ISOPEN	
	(8)	A parameter can be passed to procedure in ways.	
		(a) One	
		(b) Two	
		(c) Three	
		(d) Four	
	(9)	A is Executed automatically when an associated DML statemen	nt is executed.
		(a) Procedure	
		(b) Function	
		(c) Trigger	
		(d) Package	
	(10)	A is an oracle object, which holds other objects in it.	
		(a) Procedure (b) Function (c) Trigger (d) Package	

Answe (1) (2) (3) (4)	with the following questions in brief (Any Ten) What is normalization? What are the advantages of Normalization? Differentiae 3NF and BCNF. Draw the PL/SQL block structure.	[20	
(5) (6) (7) (8) (9)	Define: Variable and Constant. Explain Case statement in brief. Explain cursor FOR LOOP. Differentiate between implicit cursor and explicit cursors. Explain SELECT INTO Statement.		
(10) (11) (12)	Differentiate between stored Procedure and stored Function. Differentiate row level and statement level trigger. What is Package? List part of package.		
Explair examp	n First Normal Form, Functional Dependency, Second Normal Form and BCNF with le.	[10	
	OR		
Consider the following table EMP_PROJ with primary key (Employee_ID, Project_ID). It is used to record information related to (i) Employee Information (ii) Project Information and (iii) Information related to association between employee and project. Note that an employee can work in multiple projects, and multiple employees can work on a same project. Also note that salary of two employees is same if their designations are same. List Functional Dependencies and give table(s)/database design for this system in (i) 1 NF (ii) 2 NF and (iii) BCNF.			
EMP_F	PROJ(Employee_ID, Project_ID, Joining_Date, Leaving_Date, Employee_Name, Project_Title, Employee_Phone, Project_Duration_in_Days, Dependents_of_Employee, Designation, Salary)		
(A) (B)	Explain Conditional Control with syntax and example. Explain basic data types in detail.	[05 [05	
	OR		
(A) (B)	Explain Iterative Control with syntax and example. Write advantages of PL/SQL	[05 [05	
	n declaration, open, fetch and close statements for an explicit cursor with proper , description and example.	[10	
	OR		
(A) (B)	List and explain explicit cursor attributes with suitable example. What is exception? Explain exception handling process with example.	[05 [05	
(A) (B)	Explain Procedure with syntax and example. Explain Trigger with syntax and example.	[05 [05	
	OR		
(A) (B)	Explain Function with syntax and example. Explain PL/SQL package with syntax and example.	[05 [05	