### Kadi Sarva Vishwavidyalaya

## MCA Semester-I First Mid-Semester Examination – 2022

Collage Name: LDRP Institute of Technology & Research, Gandhinagar.
Subject: Advanced Database Management System (MCA-13) (ADBMS)

Date: 15/12/22 Duration : 90 Minutes Total Marks: 25

Que	:1 Answer the following.	5
	1. A vertical fragmentation is followed by horizontal and vice versa, is	
	called	
	2. Define DDBMS.	
	3. What is the use DBMS_OUTPUT.PUT_LINE procedure?	
	4. What do you mean by cursor?	
	5. Write use of symbol := in PL/SQL.	
Que	(A) Explain PL/SQL block structure with diagram and example.	3
	(B) Explain advantages of PL/SQL over SQL.	2
	OR	
	(B) Explain the use of %type and %rowtype in PL/SQL.	
Qu	e:3 Consider the following tables.	5
	Employee(Empld,EmpName,EmpAddr)	
	Department(DeptId,DeptName)	
	Transaction(Empld,Deptld,Salary)	
	Display the Empld, EmpName, Salary for SALES Department using CURSOR in PL/SQL block.	
	OR	
	Define curor attributes with its working using example.	
Que:4	What is an Exception? Write any four built-in exception in oracle with its working.	5
	OR	
	Explain use of Exception_init and RAISE_APPLICATION_ERROR function with an	
	example.	
	Explain function and procedure subprograms in PL/SQL with an example of	5
•	each.	
	OR	

Explain peer to peer architecture of distributed database system.

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#### MCA Semester-I Second Mid-Semester Examination – 2022 Collage Name: LDRP Institute of Technology & Research, Gandhinagar. Subject: Advanced Database Management System (MCA-13) (ADBMS) Date: 22/01/22 Time: 11:00 am to 12:30 pm **Total Marks: 25** Answer the following. Que:1 1. Write the full form of ROLAP and HOLAP. 2. Which system table stored the subprogram syntax? 3. The three predicates of triggers are\_ 4. List three types of data sources of DW. 5. List four purity levels of package. (A) Write a syntax of subprogram and briefly explain it. Que:2 3 (B) List three advantages of data warehousing. 2 OR (B) Differentiate between dimension table and fact table. Explain Rollup, Drill down and "Slice & Dice" operations with figure. Que:3 5 What is Exception? Write a script to implement user defined exception to handle an error. Write code to create a procedure to display empno, ename, sal from emp Que:4 table whose salary is more than 5000. Also write code to use this procedure in PL/SQL block. OR What is DML trigger? Write PL/SQL script to create a trigger which will restrict DML operations on SUNDAY. Explain Package specification and package body with an example and list Que:5 5 any two advantages of it.

OR

What is Native Dynamic SQL? Explain query with execute immediate

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command in PL/SQL script with an example.

# Kadi Sarva Vishwavidyalaya MCA Semester – I Examination April -2023 A – 13 Advanced Database Management Systems Time: 10:30 to 01:30 Total Marks: 50 MCA - 13

Date: 06/04/2023

1. Atte	mpt following questions.	[10]
(6	a) Give full form of GCS in terms of distributed database.	
(1	) How can we comment multiple lines in PL/SQL?	
(0	List any two methods of concurrency control in distributed database.	
(d	) DDBMS stands for	
(e	) Set serveroutput on is used for	
(f)	What is the use of raise_application_error function?	
(g)	Which cursor attribute is used to retrieve total number of rows fetched from the curs	sor?
(h)		
(i)	Which symbol is used to assign a value to the variable in PL/SQL?	
(j)	OLAP stands for	
		[05]
2. (A) A	ttempt following questions.	[05]
(i)	Executable section is mandatory in PL/SQL block. [true/false]	
(ii	and the state of t	
(ii	r, /c-11	
(iv	그는 것이 그는 그리고 없었다. 그렇게 하면 하면 하면 하면 하면 하면 하면 하면 하면 하는 것은 일 하는 사람들이 하는 것이 없는 것은 사람들이 얼마나 하다고 하는 것이다.	
(v)	a CVIDCOD for /feleal	
		[05]
2.(B) At	tempt following questions.	[oɔ]
(i)	List and explain four cursor attributes for explicit cursor.	
(ii)	Write advantages of PL/SQL over SQL.	
	OR	
(i)	Explain cursor for loop with suitable example.	
(ii)	Explain the use of exception_init pragma with suitable example.	
3 Attempt	following questions.	[10]
•	Explain exception propagation when exception is raised from executable section	
	PL/SQL block.	
(b) E	Explain Query optimization in Distributed database system.	
	OR	
(a) E:	xplain DML trigger with suitable example.	
(b) Ex	plain concurrency control in Distributed database system.	

ot following questions.	[10]				
List and explain three modes of parameter with suitable example.					
Explain any five collection methods.					
OR					
Explain explicit cursor with suitable example.					
ot following questions.	[10]				
OR					
What is a native dynamic sql? Explain the use of DBMS_SQL package.					
Explain user defined exception with suitable example.					
용하는 하는 이 가는 아름은 아름이 그 아이에 들어 있는 이 경기를 위한 경험을 받았다. 이 동안 등에 되었다. 1985년 - 1985년 -					
*** *** *** *** ***	_				
	Explain any five collection methods.  OR  Explain explicit cursor with suitable example.  How package can be created and used in PL/SQL?  of following questions.  List and explain three triggering predicates with suitable example.  Explain Nested table with suitable example.  OR  What is a native dynamic sql? Explain the use of DBMS_SQL package.				

## Kadi Sarva Vishwavidyalaya MCA Semester – I Examination January -2023 MCA – 13 Advanced Database Management Systems

D	ale: 19/01/2023	Time: 3 Howrs.	Total Marks: 50			
1. 2. 3.	Instructions: 1. All questions are compulsory and carry equal weight. 2. Figures to the right indicate full marks. 3. Indicate clearly, the options you attempt along with its respective question number. 4. Rough work is done in the last page of main answer-book.					
1. Answe	r the following question	s.	[10]			
(a)	SQLCODE function re	eturns the number code of the mos				
(b)		to concatenate the string?	resent exception. [true / laise]			
(c)		valid only for row level triggers. [tr	ue / falsel			
(d)	GCS stands for					
(e)		a single line in PL-SQL?				
(f)	The references clause	s used to specify a different name	for :old and :new. [true / false]			
(g)	cursor attribu	te gives the count of total no of row	vs fetched from the cursor.			
(h)	DDBMS stands for Dir	ect Database Management System.	[true / false]			
(i)	List three collection type	pes exist in PL/SQL.				
(j)	What is a Package?					
(i) (ii)	OLAP stands for	, Operations of a transaction may be	[05] e distributed. [ true / false ]			
(iii)		LLUP in Group by Clause?				
(iv)		to refer an implicit cursor in a pro	gram?			
(v)	What is the use of NOC	OPY keyword?				
2. (B) Ansv	ver the following questio	ns.	[05]			
(i)	Write advantages of PL/	SQL over SQL.				
(ii)	Explain four cursor attrib					
75) F	Contribution (COLUMN )	OR				
	Explain PL/SQL block st		and the control of th			
(ii) E:	xplain the use of %ROV	TYPE with suitable example.				
3. Answer the	following questions.		[10]			
(a) Exp	olain client/server DDB	MS architecture.				
(b) Exp	lain cursor for loop usi	ng suitable example.	•			
		OR				
(a) List t	ypical OLAP operation	s. Explain any four of them.				
		ions. Explain any four of them.	•			

4. Answer the following questions.

[10]

- Write a PL/SQL code to calculate the sum of two numbers using user defined function.
- (b) What is an Exception? How explain is handled when it is raised from the executable section of the PL/SQL block?

OR

- Write a PL/SQL code to display emp\_no and emp\_name of all employees using cursor. (a)
- (b) Explain three triggering predicates with suitable example.
- 5. Answer the following questions.

[10]

- Explain the use of package with suitable example. (a)
- Differentiate between NestedTable, Varray and Index-by Table. (b)

OR

- (a) Explain Concurrency control in Distributed database management system.
- (b) Explain following five collection methods. Extend, Exists, Prior, Last and Delete.