M. K. S. S. S. CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE.

STUDENT'S ROLL NO. :



Assignment 4
Advantages of litting Stored Procedures And Functions
Functions
A stored Proadure is a type of code in SQL that can be
A stored Providure is a type of code in SQL that can be used for later use & can be used many times. So whenever
you need to execute the guerry, instead of calling it
you can just use the stored procedure. You can also
pass parameters to the stored procedure so that the
stored procedure can act based on the parameter
values that it has been passed.
you need to execute the querry, instead of calling it you can just use the stored procedure. You can also pass parameters to the stored procedure so that the stored procedure so that the stored procedure can act based on the parameter values that it has been passed. Stored function is a program like a stored procedure but it is a program like a stored procedure but
it must return a value.
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Advantages of Stored Providures And Jored Functions -
1. Better Performance - The procedure calls are quick and efficient as stored procedures are compiled once and
are stored in the encutourly form Home the response is
are stored in the eneutable form. Hence the response is quick. The eneutable code is automatically cached and
hence lowers the memory requirements.
2. Higher Productivity - Productivity is high as the same
piece of code is used again and again.
3. Ease of Use - To create a stored procedure, one
can use any IDE. Then they can be deployed on any
 ties of network architecture.
4. Scalability - Stored procedures increase the
scalability by isolating the application processing on
The server.

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5.	Maintainability - Maintaining a procedure on a server is
	much easier than maintaining copies on various machines
	this as the scripts are in one location.
6,	Security - Access to oracle data can be restricted by allowing
	procedures that execute with their definer's previleges
	procedures that execute with their definer's previleges.
	Explain IN, OUT, INOUT type of parameters -
	IN parameter - An IN parameter is used to take a
	parameter as input such as an attribute. When we
	define an IN parameter in a procedure, the calling
	program has to pass an argument to the stored
	procedure.
	The value of an IN parameter is protected. It means
	that even if the value of IN parameter is changed inside the procedure, its original value
	changed inside the procedure, its exiginal value
	is retained after the projective ends (tike pass by
	value). In other words, the procedure only works
	on the copy of the IN parameter.
	·
	OUT parameter - An OUT parameter is used to
	pass a parameter as output or display like the
	select operator. The value of an OUT parameter
	can be changed inside the procedure & its new
	out parameter - An out parameter is used to pass a parameter as output or display like the select operator. The value of an out parameter can be changed inside the procedure & its new value is passed back to the calling program.
	INOUT parameter - An INOUT parameter is a combination of IN & OUT parameters. It means that the calling program may pass the argument, and the
1	combination of IN & OUT parameters. It means that
	The colling program may pass The argument, and the

	Stored procedure can mose & pass the new value program.	lify the INDUT parameter back to the calling
	Différence between Stored Stored Procedures	
,	A procedure cloes have a return type but it returns values using the OUT parameters.	A function has a return type and returns a value.
2.	You can use DML querrie such as insert, update, select, etc with procedure	you cannot use a function with Data manipulation s querries Only Select querries are allowed in functions.
Ž	A procedure allows both input & output parameters.	A function does not allow output parameters.
4.	You can manage transactions inside a procedure.	You cannot manage transactions inside a function

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Stored Procedures	Functions
5. You can call a function from a stored procedure. 6. You cannot call a	You cannot call stored procedures from a function.
stored procedure using a select statement	You can call a function using a select statement.
What are Database Curse	2
to it is stored in a co	ry, all information pertaining interet area. A cursor is a view. A cursor allows of a guerry. Cursor is used
Explain Declare, open fet	ch and close operations on a
1. Declare Cursor Object.	de a stored procedure, must first be declared.
Syntan → PECLARE CURSOR-N SELECT * FROM	table j
2. Opening the cursor - (the result set for the the data.	Opening the cursor initializes access to

Syntax-OPEN cursor-name; 3. Fetch operations - The news of the result set can be accessed one at a time by moving its contents into variables using a fetch statement Syntan -FETCH cursor_name INTO varl, varz, ... varn; 4. Close the cursor connection - The cursor resources are deallocated. Syrtan-CLOSE cursor name; Explain Exception handling in MySQL.

An exception is an error which disrupts the normal flow of program instructions.

PL/SQL is provides us the exception black which raises the exception thus helping the programmes to find the fault & resolve it. MySQL provides an easy way to define handlers that handles general conditions such as warnings or exceptions to specific conditions of specific emor codes.

If a condition whose value matches condition value yells will execute the statement & continue. ent The current code block based on the action The action accepts one of the following values-CONTINUE - the execution of the enclosing code block

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	For Women
	(BEGIN END) continues.
	FXIT - the execution of the enclosing code block where the handler is decladed terminates.
	The nanouer is decladed terminates?
	Catan
	Syntax - DECLARE action HANDLER condition_value statement;
	DECLARE aguen HANDLER condition_value Statement;
	and large over the info
	d coult on white
	code/name executed if of condition condition occurs
e	