problem statement database trigger (all types: row, statement, before and after level) with a block of code on library table The system should have track of tecords that are being updated/deleted. The old values of update/delete records should be added in the library audit table.

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What is trigger?

A trigger is a set of actions which get executed auto - matically when a specified change operation is performed on a particular table.

Triggers can be defined only on tables, not on views.

However triggers on the base table of a view are fired if an insert, update or delete statements is/are issued against a view.

In addition, triggers are commonly used to;

- automatically generated derived columns' values
- prevent invalid transactions
- enforce complex security authorizations
- write to other files for audit trial purpose
- replicate data to different files to achieve data consistency

parts of trigger

A trigger has basic three parts

- I) triggering event or statement

 this sal statement causes a trigger to be fired. A

 triggering event can be an insert, update, delete statement
 on a table.
- II) trigger restriction specifies a boolean (logical) express a trigger restriction specifies a boolean (logical) express -ion that must be true for trigger to fired. The trigger action is not executed if the trigger restriction evaluates

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	tó false or unknown. Its function is to conclude
istus I	the execution of a trigger, conditionally.
	The execution of a miggin, commission and all political
	III) trigger action
-	A trigger action is the procedure that contains
Tred F -	the sau statements and pu/sau code to be executed
tenigos	when a triggering statement is issued and the
11-	trigger restriction evaluates to TRUE.
	int base plantages are compatible at
- 11	Types of triggers
	Julian de la company de la com
-	TOWN Tridger
	row trigger is Fired each time the table
	A row trigger is fired each time the table
	is affected by the triggering statement. For example,
	if an uppare statement updates multiple rows of a
	table, a row trigger is fired once for each row affe
	-cted by the update statement.
	Row trigger are useful if the code in the trigger
	action depends on date data provided by the triggering
	statement or rows that are affected.
A	this say statement causes / drisger to be fire
To their	statement triquer
	A statement trigger is fired 'once' on behalf
	of triggering statement regardless of the number of
50	rows in the table that the triggering statement affects.
	For example if a delete statement lite
	for example, if a delete statement deletes
a dabta t	several rows from a table, a statement level DELETE
The sterile	trigger is Fired only once, regardless of how many
	**
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rows are deleted from the table. BeFore triggers before triggers are execute the trigger action before the triggering statement. Before trigger is used in following situations:) when the trigger action should determine whether the triggering statement should be allowed to complete 2) before triggers are used to derive specific column values before completing a triggering insert or update statement. AFter triggers After triggers execute the trigger action after the triggering statement is executed. These are used in the following situations: i) after triggers are used when you want the triggering statement to complete before executing the trigger action. ii) if a before trigger is already present, an after trigger can perform different actions on the same triggering statement. syntax to create trigger: create [or replace] trigger trigger-rame { before after instead of } { insert | update | delete } [of col-name] on tablename [reffering old as o NEW as 7] [for each row] WHEN (condition) DECLARE