

ITCS393 Database Systems Lab

Lab13 Exercise

Dr. Petch Sajjacholapunt

Dr. Wudhichart Sawangphol

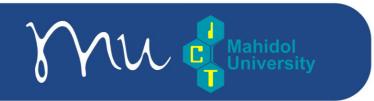
Dr. Jidapa Kraisangka



Petch.saj@mahidol.edu

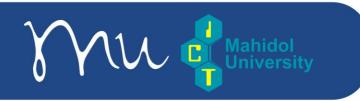


- Instructions
 - 1. Write the SQL commands to answer all questions
 - 2. Save your final SQL script rename it as "L13grYidxx88xxx.sql".
 - Y is your study Group
 - xx88xxx is your student ID
 - 3. Submit the SQL file on Mycourses.



Q1. Do the following steps to create trigger

- Create table LogFileAudit that contain LogID: VARCHAR(225) as a PRIMARY KEY, Action: VARCHAR(225) NOT NULL, and TableName: VARCHAR(225) NOT NULL.
- Create a trigger addLogINS to insert a log data into LogFileAudit after inserting data into the person table.
 - The LogID value is the max value of LogID + 1
 - The Action value is 'INSERT', and
 - The TableName value is 'person'
- Create a trigger addLogDEL to insert a log data into LogFileAudit after deleting data from the project table.
 - The LogID value is the max value of LogID + 1
 - · The Action value is 'DELETED', and
 - The TableName value is 'project'



Q1. Test by the following SQL Script

```
INSERT INTO person (pid, full_name, budget, proj_id)
VALUES ('011', 'John Doe', 1000.00, '1');
```

pid	full_name	budget	proj_id
009	Hina Siddiqui	23000.00	3
010	Joanne Mills	25000.00	4
011	John Doe	1000.00	1

	LogID	Action	TableName
•	1	INSERT	person

DELETE FROM project WHERE proj_id = '1';

	proj_id	proj_name	total_budget
•	2	Project 2	35000.00
	3	Project 3	98000.00
	4	Project 4	25000.00

	LogID	Action	TableName	
•	1	INSERT	person	
	2	DELETE	project	



- **Q2.** Create a trigger "cascade_insert" to insert a new record into the project table after inserting a new person into the person table, if the project id does not exist yet in the project table.
 - The new project record, will have a default project_name as (Unknown) and the total_budget is equal to the person's budget
 - After executing this insert command, the expected data in these two tables are shown below

INSERT INTO person (pid, full_name, budget, proj_id) VALUES ('012','Harry Potter', 15000, 5);

person

	pid	full_name	budget	proj_id
•	001	Peter Copper	20000.00	1
	002	Sarah MaCorr	10000.00	1
	003	Henry Pipe	25000.00	1
	004	Wilman Kala	30000.00	2
	005	Matti Karttunen	5000.00	2
	006	Luke Miller	21000.00	3
	007	Margaret Johnson	22000.00	3
	008	Bruce Randall	32000.00	3
	009	Hina Siddiqui	23000.00	3
	010	Joanne Mills	25000.00	4
	011	John Doe	1000.00	1
	012	Harry Potter	15000.00	5

project

	proj_id	proj_name	total_budget
•	2	Project 2	35000.00
	3	Project 3	98000.00
	4	Project 4	25000.00
	5	Unknown	15000.00