

(CL2005) Database Systems Lab

Procedures and Triggers

Exercises

Table 1: Users [user_id (p.k)]

user_id	username	password	email	salary
1	abc123	def321	abc123@yahoo.com	30000
2	xyz789	asd123	xyz789@gmail.com	50000

Table 2: Summary [id(p.k)]

id	total_users	Yahoo	Hotmail	Gmail
1	2	1	0	1

Create a database name person and create the tables above.

1. Write a procedure that take id, total_user, Yahoo, Hotmail, Gmail values as an input and insert the data into the table summary.
2. Write a procedure that take user_id, username, password, email values as an input and insert the data into the table Users.
3. Write a procedure that output the total number of records/rows in the users table.
4. Write a procedure that output the average salary in the users table.
5. Create a procedure named minmax which displays the lowest and the highest salary of the users. Run the procedure to display the lowest and the highest salary.
6. Create trigger(s) to update the records in the summary table. The summary table will contain only one record and will be updated each time a new entry is made to the users table, or a user is deleted from the users table. You need to create the following two triggers.
 - I. Whenever a new entry is made to the user's table then total_user attribute in the summary table must be incremented by 1.
 - II. Whenever a record is deleted from the user's table then total_user attribute in the summary table must be decremented by 1.

Insert data in the users table (at least 5-10 records) with different email addresses.

Check the summary table each time you add a new user or delete a user to check if the trigger(s) are working correctly.