

S08-P02 Practice

Assignment

There is a stored function `INS_USER_LOGIN_DATA_GENERATOR` which simulates users logging to your website or mobile app and writing data to `sample_staff` . `user_login` . Your assignment will be to:

1. Create a new procedure which will delete from `sample_staff` . `user_login` data older than 10 minutes, but will keep the new data (newer than 10 minutes).
2. Create a new event in MySQL Event Scheduler which will run the procedure `INS_USER_LOGIN_DATA_GENERATOR` every 30 seconds.

...

...

...

SPOILER: Below are the results

...

...

Result

```
-- Check if the Event Scheduler is turned ON
SHOW VARIABLES LIKE 'event_scheduler';

-- If the variable event_scheduler=OFF, you need to activate it
SET GLOBAL event_scheduler = 1;
```

Procedure to randomly generate user login data

There should be a stored function `INS_USER_LOGIN_DATA_GENERATOR` saved in `sample_staff` database. If it's not, please run the script below to re-create it.

```
DROP PROCEDURE IF EXISTS `INS_USER_LOGIN_DATA_GENERATOR` ;

DELIMITER //

CREATE PROCEDURE `INS_USER_LOGIN_DATA_GENERATOR`()
BEGIN
    DECLARE p_ip_address VARCHAR(20);
    DECLARE p_user_id INT;
    DECLARE p_loop_counter INT DEFAULT 10;

    WHILE p_loop_counter > 0 DO

        INSERT INTO `sample_staff`.`user_login`
            (`user_id`, `login_dt`, `ip_address`, `insert_dt`,
            `insert_process_code`)
        SELECT
            `user`.`id` AS user_id,
            NOW() AS login_dt,
            INET_ATON(`ip_address_varchar20`.`ip_address`) AS ip_address,
            NOW(),
            'INS_USER_LOGIN_DATA_GENERATOR' AS insert_process_code
        FROM `sample_staff`.`user`
        INNER JOIN `sample_ip`.`ip_address_varchar20` ON 1=1
            AND `sample_ip`.`ip_address_varchar20`.`id` < 100
        ORDER BY RAND()
        LIMIT 1000
        ;

        SET p_loop_counter = p_loop_counter - 1;
    END WHILE;

END;
//

DELIMITER ;

CALL `INS_USER_LOGIN_DATA_GENERATOR`();
```

Create event

```
DROP EVENT IF EXISTS `sample_staff`.`ev_generate_login_data` ;
```

```
CREATE EVENT `sample_staff`.`ev_generate_login_data`  
  ON SCHEDULE EVERY 30 SECOND  
  STARTS NOW()  
  ENDS NOW() + INTERVAL 1 HOUR  
  COMMENT 'Randomly generate data to sample_staff.user_login table.'  
  DO CALL `INS_USER_LOGIN_DATA_GENERATOR`()  
;
```