

DATABASE INTEGRITY

Kombinasi store procedure dan trigger

Perhatikan 2 tabel :

```
CREATE TABLE student (regNo char(8), name varchar(20), PRIMARY KEY (regNo));  
CREATE TABLE log_student (event varchar(15), time datetime);
```

Buat store procedure yang digunakan untuk mengisi tabel student
Selanjutnya, buat trigger untuk menyimpan aktivitas insert pada tabel log secara otomatis.

Store Procedure

Delimiter //

```
Create procedure i_student (xregNo char(2),xname varchar(20))  
Begin  
    insert into student values (xregNo, xname);  
    select * from student;  
End  
//
```

Trigger

```
Create trigger i_log after insert on student for each row  
Begin  
    insert into log_student values ('add data', now());  
End  
//
```

Execution :

```
Mysql>call i_student ('11','Joni')//  
Mysql>call i_student ('22','Smith')//
```

student

regNo	name
11	Joni
22	Smith

log_student

Event	Time
Add data	2017-10-19 11:30:00
Add data	2017-10-19 11:31:10

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Tugas

1. Buat trigger yang digunakan untuk menyimpan data di tabel log_student, jika operasi update atau delete di tabel student dilakukan:
 - a. Jika operasi update dilakukan, maka atribut event pada tabel log_student diisi 'update data'
 - b. Jika operasi delete dilakukan, maka atribut event pada tabel log_student diisi 'delete data'

log_student

Event	Time
Add data	2017-10-19 11:30:00
Add data	2017-10-19 11:31:10
....	
Update data	2017-10-19 11:36:10
Delete data	2017-10-19 11:38:20

records are stored from trigger operations result

