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## Tugas Membuat Store Procedure dan Trigger

### Database Demo

```
MariaDB [(none)]> use demo;
Database changed
MariaDB [demo]> show tables;
+-----+
| Tables_in_demo |
+-----+
| log_student     |
| student         |
+-----+
2 rows in set (0.003 sec)
```

### Tabel log\_student

```
MariaDB [demo]> desc log_student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| event | varchar(15)   | YES  |     | NULL    |       |
| time  | datetime      | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

### Tabel Student

```
MariaDB [demo]> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| regNo | char(8)        | NO   | PRI | NULL    |       |
| name  | varchar(20)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.048 sec)
```

## Insert data

### Store Procedure

MariaDB [demo]> delimiter //

MariaDB [demo]> create procedure i\_student (xregNo char(2),xname varchar (20))

-> begin

-> insert into student values (xregNo,xname);

-> select \* from student;

-> end

-> //

### Hasil :

```
MariaDB [demo]> call i_student ('11','Joni')//
+-----+-----+
| regNo | name |
+-----+-----+
| 11    | Joni |
+-----+-----+
1 row in set (0.006 sec)

Query OK, 2 rows affected (0.016 sec)

MariaDB [demo]> call i_student ('22','Smith')//
+-----+-----+
| regNo | name |
+-----+-----+
| 11    | Joni |
| 22    | Smith|
+-----+-----+
2 rows in set (0.013 sec)

Query OK, 2 rows affected (0.036 sec)
```

## Trigger dari insert data

### Store Procedure

MariaDB [demo]> create trigger i\_log after insert on student for each row

-> begin

-> insert into log\_student values ('Add data', now());

-> end

-> //

```
MariaDB [demo]> select * from log_student//
+-----+-----+
| event  | time                |
+-----+-----+
| Add data | 2022-06-22 11:55:14 |
| Add data | 2022-06-22 11:55:58 |
+-----+-----+
2 rows in set (0.001 sec)
```

## Update Data

### Store Procedure

```
MariaDB [demo]> create procedure u_student (xregNo char(2), xname varchar(20))
```

```
-> begin
```

```
-> update student set name=xname where regNo=xregNo;
```

```
-> select * from student;
```

```
-> end
```

```
-> //
```

Hasil :

```
MariaDB [demo]> call u_student ('22','Ali')//
+-----+-----+
| regNo | name |
+-----+-----+
| 11    | Joni |
| 22    | Ali  |
+-----+-----+
2 rows in set (0.011 sec)

Query OK, 2 rows affected (0.027 sec)
```

## Trigger dari update data

```
MariaDB [demo]> create trigger u_log after update on student for each row
```

```
-> begin
```

```
-> insert into log_student values ('Update data',now());
```

```
-> end
```

```
-> //
```

```
MariaDB [demo]> select * from log_student//
+-----+-----+
| event      | time                |
+-----+-----+
| Add data   | 2022-06-22 11:55:14 |
| Add data   | 2022-06-22 11:55:58 |
| Update data | 2022-06-22 12:18:23 |
+-----+-----+
3 rows in set (0.001 sec)
```

## Delete

### Store Procedure

MariaDB [demo]> create procedure d\_student (xregNo char(2))

-> begin

-> delete from student where regNo=xregNo;

-> select \* from student;

-> end

-> //

Hasil :

```
MariaDB [demo]> call d_student ('22')//
+-----+-----+
| regNo | name |
+-----+-----+
| 11    | Joni |
+-----+-----+
1 row in set (0.009 sec)

Query OK, 0 rows affected (0.021 sec)
```

## Trigger dari delete

MariaDB [demo]> create trigger d\_log after delete on student for each row

-> begin

-> insert into log\_student values ('Delete data',now());

-> end

-> //

```
MariaDB [demo]> select * from log_student//
+-----+-----+
| event      | time                |
+-----+-----+
| Add data   | 2022-06-22 11:55:14 |
| Add data   | 2022-06-22 11:55:58 |
| Update data | 2022-06-22 12:18:23 |
| Delete data | 2022-06-22 12:30:05 |
+-----+-----+
4 rows in set (0.001 sec)
```