

CPK 2 Basis Data Agung Gumilang 200602034

1. Before Delete

```
MariaDB [sistem_informasil> DELIMITER //
MariaDB [sistem_informasil> create trigger ad_history
-> before delete on mata_kuliah
-> for each row
-> begin
-> insert into history
-> set
-> id_mk = old.id_mk,
-> kode_mk = old.kode_mk,
-> nama_mk = old.nama_mk,
-> kode_dosen = old.kode_dosen,
-> aksi = 'Before Delete';
-> end //
Query OK, 0 rows affected (0.042 sec)

MariaDB [sistem_informasil> delete from mata_kuliah where nama_mk = 'PWEB';
-> //
Query OK, 1 row affected (0.076 sec)

MariaDB [sistem_informasil> select * from history//
+-----+-----+-----+-----+-----+
| id_mk | kode_mk | nama_mk | kode_dosen | aksi |
+-----+-----+-----+-----+-----+
| 1 | 19005223445 | PWEB | 121 | Before Delete |
+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [sistem_informasil>
-> kode_mk = old.kode_mk,
```

2. Left Join

```
MariaDB [sistem_informasil> select dosen.nama_dsn, dosen.kode_dosen, mata_kuliah.kode_dosen, mata_kuliah.nama_mk
-> from dosen
-> left join mata_kuliah on dosen.kode_dosen = mata_kuliah.kode_dosen
-> order by dosen.nama_dsn;
+-----+-----+-----+-----+
| nama_dsn | kode_dosen | kode_dosen | nama_mk |
+-----+-----+-----+-----+
| Darmawan Aditama, S.Kom., M.T. | 445 | NULL | NULL |
| Harunur Rosyid, ST., M.Kom | 121 | 121 | PWEB |
| Henny Dwi Bhakti, S.Si., M.Si. | 354 | NULL | NULL |
| Indra Gita Anugrah, S.Kom., M.Kom | 733 | 733 | Basis Data Lanjut |
| Putri Aisyyiah Rakhma Devi, S.Pd., M.Kom | 466 | 466 | PBO |
| Umi Chotijah, S.Kom., M.Kom | 145 | 145 | Basis Data |
+-----+-----+-----+-----+
6 rows in set (0.002 sec)
```

3. Inner Join

```
MariaDB [sistem_informasil> select dosen.nama_dsn, dosen.kode_dosen, mata_kuliah.kode_dosen, mata_kuliah.nama_mk
-> from dosen
-> inner join mata_kuliah on dosen.kode_dosen = mata_kuliah.kode_dosen
-> order by dosen.nama_dsn;
+-----+-----+-----+-----+
| nama_dsn | kode_dosen | kode_dosen | nama_mk |
+-----+-----+-----+-----+
| Harunur Rosyid, ST., M.Kom | 121 | 121 | PWEB |
| Indra Gita Anugrah, S.Kom., M.Kom | 733 | 733 | Basis Data Lanjut |
| Putri Aisyyiah Rakhma Devi, S.Pd., M.Kom | 466 | 466 | PBO |
| Umi Chotijah, S.Kom., M.Kom | 145 | 145 | Basis Data |
+-----+-----+-----+-----+
4 rows in set (0.002 sec)
```

4. After Insert

```
MariaDB [sistem_informasil]> create trigger al_history
-> after insert on mata_kuliah
-> for each row
-> begin
-> insert into history
-> set
-> id_mk = now.id_mk,
-> nama_mk = now.nama_mk,
-> kode_dosen = now.kode_dosen,
-> aksi = 'After Insert';
-> end//
Query OK, 0 rows affected (0.031 sec)
```

```
MariaDB [sistem_informasil]> INSERT INTO history(id_mk, kode_mk, nama_mk, kode_dosen, aksi)
-> VALUES
-> ('10', '7898878979', 'PTR',085746178850,'After Insert');
-> //
Query OK, 1 row affected, 1 warning (0.003 sec)
```

```
MariaDB [sistem_informasil]> select * from history;
-> //
```

id_mk	kode_mk	nama_mk	kode_dosen	aksi
0	7898878979	PTR	2147483647	
1	19005223445	PWEB	121	Before Delete
10	7898878979	PTR	2147483647	After Insert

3 rows in set (0.001 sec)

5. Right Join

```
MariaDB [sistem_informasil]> select dosen.nama_dsn, dosen.kode_dosen, mata_kuliah.kode_dosen, mata_kuliah.nama_mk
-> from dosen
-> right join mata_kuliah on dosen.kode_dosen = mata_kuliah.kode_dosen
-> order by dosen.nama_dsn;
```

nama_dsn	kode_dosen	kode_dosen	nama_mk
Harunur Rosyid, ST., M.Kom	121	121	PWEB
Indra Gita Anugrah, S.Kom., M.Kom	733	733	Basis Data Lanjut
Putri Aisyiyah Rakhma Devi, S.Pd., M.Kom	466	466	PBO
Umi Chotijah, S.Kom., M.Kom	145	145	Basis Data

4 rows in set (0.002 sec)