

POST TEST 3 Praktikum Sistem Basis Data

DML Insert, Update, Delete

Waktu Pengerjaan : Rabu,

Petunjuk Pengumpulan:

1. Nama file : PT3_**NIM**_GRUP.pdf
Contoh : PT3_71210000_C.pdf
 2. Jawaban dibuat berupa command SQL (copas), screenshot dari command SQL, dan hasilnya.
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1. Persiapkan

a) Database dengan nama PT3_**NIM**

```
CREATE DATABASE PT3_71210739;
```

```
MariaDB [(none)]> CREATE DATABASE PT3_71210739;  
Query OK, 1 row affected (0.006 sec)
```

b) Buatlah tabel sesuai dengan ketentuan di bawah ini

```
CREATE TABLE kpop_songs (  
    id_song INT NOT NULL AUTO_INCREMENT,  
    song VARCHAR(100) NOT NULL,  
    grup VARCHAR(50) NOT NULL,  
    release_date DATE NOT NULL,  
    rating FLOAT NOT NULL,  
    PRIMARY KEY (id_song)  
);
```

```
Database changed
```

```
MariaDB [pt3_71210739]> CREATE TABLE kpop_songs (  
-> id_song INT NOT NULL AUTO_INCREMENT,  
-> song VARCHAR(100) NOT NULL,  
-> grup VARCHAR(50) NOT NULL,  
-> release_date DATE NOT NULL,  
-> rating FLOAT NOT NULL,  
-> PRIMARY KEY (id_song)  
-> );  
Query OK, 0 rows affected (0.018 sec)
```

Nama Tabel	Nama Atribut	Tipe Data	Auto Increment	Not Null	PK/FK
kpop_songs	id_song	INT	Y	Y	PK
	song	VARCHAR (100)		Y	
	grup	VARCHAR (50)		Y	
	release_date	DATE		Y	
	rating	FLOAT		Y	

2. Isilah tabel yang telah dibuat dengan record di bawah ini (1 poin)

```
INSERT INTO kpop_songs (
    `song`,
    `grup`,
    `release_date`,
    `rating`
)
VALUES
('Gentleman', 'PSY', '2020-02-15', '5.8'),
('Fire', 'BTS', '2016-05-02', 9),
('Lion Heart', 'Girls Generation', '2015-08-18', 5.5),
('Fantastic Baby', 'Bigbang', '2012-02-29', 7.5),
('Sorry, Sorry', 'Super Junior', '2009-03-09', 8.7),
('Run Devil Run', 'Girls Generation', '2010-03-17', 6.9),
('Ring Ding Dong', 'Shinee', '2009-10-14', 9.3),
('Psycho', 'Red Velvet', '2019-12-23', 8.8),
('Forever 1', 'Girls Generation', '2022-08-05', 8.5),
('Celebrity', 'IU', '2021-01-27', 7.5);
```

```

ERROR 1136 (21501): Column count doesn't match value count at row
MariaDB [pt3_71210739]> INSERT INTO kpop_songs (
->   `song`,
->   `grup`,
->   `release_date`,
->   `rating`
-> )
-> VALUES
-> ('Gentleman', 'PSY', '2020-02-15', '5.8'),
-> ('Fire', 'BTS', '2016-05-02', 9),
-> ('Lion Heart', 'Girls Generation', '2015-08-18', 5.5),
-> ('Fantastic Baby', 'Bigbang', '2012-02-29', 7.5),
-> ('Sorry, Sorry', 'Super Junior', '2009-03-09', 8.7),
-> ('Run Devil Run', 'Girls Generation', '2010-03-17', 6.9),
-> ('Ring Ding Dong', 'Shinee', '2009-10-14', 9.3),
-> ('Psycho', 'Red Velvet', '2019-12-23', 8.8),
-> ('Forever 1', 'Girls Generation', '2022-08-05', 8.5),
-> ('Celebrity', 'IU', '2021-01-27', 7.5);
Query OK, 10 rows affected (0.004 sec)
Records: 10  Duplicates: 0  Warnings: 0

```

song	grup	release_date	rating
Gentleman	PSY	2020/02/15	5.8
Fire	BTS	2016/05/02	9
Lion Heart	Girls Generation	2015/08/18	5.5
Fantastic Baby	Bigbang	2012/02/29	7.5
Sorry, Sorry	Super Junior	2009/03/09	8.7
Run Devil Run	Girls Generation	2010/03/17	6.9
Ring Ding Dong	Shinee	2009/10/14	9.3
Psycho	Red Velvet	2019/12/23	8.8
Forever 1	Girls Generation	2022/08/05	8.5
Celebrity	IU	2021/01/27	7.5

3. Ubahlah (1 poin)

- a. Grup dari lagu “Gentleman” menjadi “NCT”

```
UPDATE kpop_songs
SET grup = 'NCT'
WHERE song = 'Gentleman';
```

MariaDB [pt3_71210739]> UPDATE kpop_songs
-> SET grup = 'NCT'
-> WHERE song = 'Gentleman';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

- b. Release date dan rating lagu dari grup “Red Velvet” menjadi **2022/09/20** dan **9.1**

```
UPDATE kpop_songs
SET release_date = '2022-09-20', rating = 9.1
WHERE grup = 'Red Velvet';
```

MariaDB [pt3_71210739]> UPDATE kpop_songs
-> SET release_date = '2022-09-20', rating = 9.1
-> WHERE grup = 'Red Velvet';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

- c. Judul dari lagu yang dirilis pada **2012/02/29** menjadi **Oh My Baby**

```
UPDATE kpop_songs
SET song = 'Oh My Baby'
WHERE release_date = '2012-02-29';
```

MariaDB [pt3_71210739]> UPDATE kpop_songs
-> SET song = 'Oh My Baby'
-> WHERE release_date = '2012-02-29';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

- d. Judul lagu dengan grup **Girl' Generation** dan rating **8.5** menjadi **You Better Run**

```
UPDATE kpop_songs
SET song = 'You Better Run'
WHERE grup = 'Girls Generation' AND rating = 8.5;
```

```
rating = 8.5' at line 4
MariaDB [pt3_71210739]> UPDATE kpop_songs
  -> SET song = 'You Better Run'
  -> WHERE grup = 'Girls Generation' AND rating = 8.5;
Query OK, 1 row affected (0.004 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

4. Hapuslah (1 poin)

a. Lagu yang judulnya mengandung kata **“Run”**

```
DELETE FROM kpop_songs
WHERE song LIKE 'Run%';
```

```

MariaDB [pt3_71210739]> DELETE FROM kpop_songs
  -> WHERE song LIKE 'Run%';
Query OK, 1 row affected (0.003 sec)
```

b. Lagu dari grup **“Girls Generation”** dengan rating di bawah 7

```
DELETE FROM kpop_songs
WHERE grup LIKE 'Girls Generation' AND rating < 7;
```

```

MariaDB [pt3_71210739]> DELETE FROM kpop_songs
  -> WHERE grup LIKE 'Girls Generation' AND rating < 7;
Query OK, 1 row affected (0.002 sec)
```

Letakkan copy paste query, screenshot command SQL, dan screenshot hasilnya di bawah ini.

1. Query :

Screenshoot sql :

Hasil :