Nama :Khidir Afwan Amlabar

NIM :230202014

Kelas :TI 2A

mysql> #Karena setelah dibaca dan difahami bahwa ini masih menggunakan db modul 3 maka kami akan membuatnya di dalam db modul3

mysql> #Pastikan dbnya masih ada

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| modul3 |

| mysql |

| performance\_schema |

| sys |

+--------------------+

5 rows in set (0.02 sec)

mysql> #Kita langsung masuk ke db modul3

mysql> use modul3;

Database changed

mysql> select database();

+------------+

| database() |

+------------+

| modul3 |

+------------+

1 row in set (0.00 sec)

mysql> #1. Buat tabel dengan Foreign key

mysql> create table models(

-> modelid smallint not null auto\_increment,

-> name varchar(40) not null,

-> primary key(modelid) null)

-> engine=innoDB;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'null)

engine=innoDB' at line 4

mysql> create table models(

-> modelid smallint not null auto\_increment,

-> name varchar(40) not null,

-> primary key(modelid))

-> engine=innoDB;

Query OK, 0 rows affected (0.04 sec)

mysql> desc models;

+---------+-------------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+----------------+

| modelid | smallint | NO | PRI | NULL | auto\_increment |

| name | varchar(40) | NO | | NULL | |

+---------+-------------+------+-----+---------+----------------+

2 rows in set (0.00 sec)

mysql> create table orders(

-> id smallint not null primary key,

-> modelid smallint not null,

-> description varchar(40),

-> foreign key(modelid) refrences models (modelid) on update cascade on delete cascade)

-> engine=innoDB;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'refrences models (modelid) on update cascade on delete cascade)

engine=innoDB' at line 5

mysql> create table orders(

-> id smallint not null primary key,

-> modelid smallint not null,

-> description varchar(40),

-> foreign key(modelid) references models (modelid) on update cascade on delete cascade)

-> engine=innoDB;

Query OK, 0 rows affected (0.06 sec)

mysql> desc oreders;

ERROR 1146 (42S02): Table 'modul3.oreders' doesn't exist

mysql> desc orders;

+-------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+-------------+------+-----+---------+-------+

| id | smallint | NO | PRI | NULL | |

| modelid | smallint | NO | MUL | NULL | |

| description | varchar(40) | YES | | NULL | |

+-------------+-------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> insert into models values

-> (1, 'tessatu'),

-> (2, 'tesdua');

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from models;

+---------+---------+

| modelid | name |

+---------+---------+

| 1 | tessatu |

| 2 | tesdua |

+---------+---------+

2 rows in set (0.00 sec)

mysql> insert into orders values

-> (1, 1, 'tessatu'),

-> (2, 2, 'tesdua');

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from orders;

+----+---------+-------------+

| id | modelid | description |

+----+---------+-------------+

| 1 | 1 | tessatu |

| 2 | 2 | tesdua |

+----+---------+-------------+

2 rows in set (0.00 sec)

mysql> delete from models where modelid=2;

Query OK, 1 row affected (0.02 sec)

mysql> select \* from models;

+---------+---------+

| modelid | name |

+---------+---------+

| 1 | tessatu |

+---------+---------+

1 row in set (0.00 sec)

mysql> select \* from orders;

+----+---------+-------------+

| id | modelid | description |

+----+---------+-------------+

| 1 | 1 | tessatu |

+----+---------+-------------+

1 row in set (0.00 sec)

mysql> #2. Memodifikasi tabel dengan ALTER TABLE

mysql> #> Menambahkan kolom pada tabel

mysql> create table table5(

-> id int);

Query OK, 0 rows affected (0.02 sec)

mysql> desc table5;

+-------+------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+------+------+-----+---------+-------+

| id | int | YES | | NULL | |

+-------+------+------+-----+---------+-------+

1 row in set (0.00 sec)

mysql> alter table table5

-> add name varchar(5);

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql>

mysql> desc table5;

+-------+------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+------------+------+-----+---------+-------+

| id | int | YES | | NULL | |

| name | varchar(5) | YES | | NULL | |

+-------+------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> alter table table5

-> add first\_name varchar(30) after id;

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc table5;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| id | int | YES | | NULL | |

| first\_name | varchar(30) | YES | | NULL | |

| name | varchar(5) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> #>Memodifikasi nama kolom pada tabel

mysql> alter table table5

-> change name last\_name varchar(30);

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc table5;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| id | int | YES | | NULL | |

| first\_name | varchar(30) | YES | | NULL | |

| last\_name | varchar(30) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> #> Memodifikasi definisi tabel

mysql> alter table table5

-> modify first\_name varchar (15);

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> #> Menambahkan primary key

mysql> alter table table5

-> add primary key(id);

Query OK, 0 rows affected (0.36 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc table5;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| id | int | NO | PRI | NULL | |

| first\_name | varchar(15) | YES | | NULL | |

| last\_name | varchar(30) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> #> Menghapus table

mysql> #> Menghaous kolom

mysql> alter table table5

-> drop first\_name;

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc table5;

+-----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------+-------------+------+-----+---------+-------+

| id | int | NO | PRI | NULL | |

| last\_name | varchar(30) | YES | | NULL | |

+-----------+-------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> #> Mengganti nama tabel

mysql> #Kita cari tbl yang akan diganti

mysql> show tables;

+------------------+

| Tables\_in\_modul3 |

+------------------+

| cars |

| employee |

| employee\_copy |

| mahasiswa |

| mahasiswa\_copy |

| models |

| orders |

| table1 |

| table2 |

| table3 |

| table5 |

+------------------+

11 rows in set (0.00 sec)

mysql> #Kita akan coba mengganti employee\_copy

mysql> alter table employee\_copy

-> rename senior\_employee;

Query OK, 0 rows affected (0.01 sec)

mysql> show tables;

+------------------+

| Tables\_in\_modul3 |

+------------------+

| cars |

| employee |

| mahasiswa |

| mahasiswa\_copy |

| models |

| orders |

| senior\_employee |

| table1 |

| table2 |

| table3 |

| table5 |

+------------------+

11 rows in set (0.00 sec)

mysql> #> Menghapus semua data pada

mysql> create table employee\_copy AS

-> select \* from employee;

Query OK, 4 rows affected, 1 warning (0.03 sec)

Records: 4 Duplicates: 0 Warnings: 1

mysql> select \* from employee\_copy;

+----+------------+-----------+------------+------------+---------+-----------+-------------+

| id | first\_name | last\_name | start\_date | end\_date | salary | city | description |

+----+------------+-----------+------------+------------+---------+-----------+-------------+

| 1 | alison | martin | 1996-07-25 | 2006-07-25 | 1234.56 | toronto | programmer |

| 2 | alison | mathews | 1976-03-11 | 1986-02-01 | 6661.78 | vancouver | tester |

| 3 | janes | smith | 1978-12-12 | 1990-03-15 | 6544.78 | vancouver | tester |

| 4 | celia | rice | 1982-10-24 | 1999-04-21 | 2344.78 | vancouver | manager |

+----+------------+-----------+------------+------------+---------+-----------+-------------+

4 rows in set (0.00 sec)

mysql> truncate table employee\_copy;

Query OK, 0 rows affected (0.04 sec)

mysql> select \* from employee\_copy;

Empty set (0.00 sec)

mysql> \q