**MYSQL**

**20/11/2019**

Akses MYSQL: **/usr/local/mysql/bin/mysql -u root -p**

**Enter pass: 1992Kadek**

Apples-MacBook-Pro:~ apple$ **cd /usr/local/mysql**

Apples-MacBook-Pro:mysql apple$ **cd bin**

Apples-MacBook-Pro:bin apple$ ./mysql -u root

ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)

Apples-MacBook-Pro:bin apple$ **./mysql -u root -p**

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 11

Server version: 8.0.18 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective

owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> alter user 'root'@'localhost' identified by '02111992';

Query OK, 0 rows affected (0.00 sec)

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| performance\_schema |

| sys |

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

4 rows in set (0.00 sec)

mysql> create database purwadhika;

Query OK, 1 row affected (0.01 sec)

mysql> use purwadhika;

Database changed

mysql> create database tokoOnlineku;

Query OK, 1 row affected (0.00 sec)

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| performance\_schema |

| purwadhika |

| sys |

| tokoOnlineku |

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

6 rows in set (0.00 sec)

mysql> create table pedagang (

-> no int,

-> nama varchar(5)

-> );

Query OK, 0 rows affected (0.01 sec)

mysql> show tables;

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

| Tables\_in\_purwadhika |

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

| pedagang |

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

1 row in set (0.00 sec)

mysql> describe pedagang;

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

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

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

| no | int(11) | YES | | NULL | |

| nama | varchar(5) | YES | | NULL | |

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

2 rows in set (0.01 sec)

mysql> insert into pedagang values (2, 'Andi');

Query OK, 1 row affected (0.00 sec)

mysql> insert into pedagang (nama, no) values ('Caca', 25);

Query OK, 1 row affected (0.01 sec)

mysql> select \* from pedagang;

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

| no | nama |

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

| 2 | Andi |

| 25 | Caca |

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

2 rows in set (0.00 sec)

mysql> create table pembeli(

-> no int not null auto\_increment,

-> nama varchar (100) not null default 'Anonim Buyer',

-> usia tinyint,

-> berat float(3,1),

-> sex enum ('pria', 'wanita'),

-> bod date,

-> created\_at timestamp default current\_timestamp,

-> primary key (no)

-> );

Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> describe pembeli;

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

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

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

| no | int(11) | NO | PRI | NULL | auto\_increment |

| nama | varchar(100) | NO | | Anonim Buyer | |

| usia | tinyint(4) | YES | | NULL | |

| berat | float(3,1) | YES | | NULL | |

| sex | enum('pria','wanita') | YES | | NULL | |

| bod | date | YES | | NULL | |

| created\_at | timestamp | YES | | CURRENT\_TIMESTAMP | DEFAULT\_GENERATED |

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

7 rows in set (0.01 sec)

mysql> insert into pembeli (nama, usia, berat, sex, bod) values

-> ('Andi', 22, 27.8, 'PRIA', '1996-12-29'),

-> ('Budi', 22, 27.8, 'WANITA', '1996-11-29'); Query OK, 2 rows affected (0.00 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from pembeli;

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

| no | nama | usia | berat | sex | bod | created\_at |

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

| 1 | Andi | 22 | 27.8 | pria | 1996-12-29 | 2019-11-20 12:13:41 |

| 2 | Budi | 22 | 27.8 | wanita | 1996-11-29 | 2019-11-20 12:13:41 |

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

2 rows in set (0.00 sec)

mysql> drop database tokoOnlineku;

Query OK, 0 rows affected (0.12 sec)

**21/11/2019**

create database ptABC;

Query OK, 1 row affected (0.00 sec)

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| performance\_schema |

| ptABC |

| sys |

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

5 rows in set (0.01 sec)

mysql> use ptabc

Database changed

mysql> select database();

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

| database() |

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

| ptabc |

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

1 row in set (0.00 sec)

mysql> show tables;

Empty set (0.00 sec)

mysql> create table karyawan(

-> id\_kar bigint not null auto\_increment,

-> nama varchar(5) default 'nonim',

-> sex set('pria', 'wanita'),

-> gaji int default 5000000,

-> created\_at timestamp default current\_timestamp, -> primary key (id\_kar) -> ); Query OK, 0 rows affected (0.01 sec)

mysql> describe karyawan;

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

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

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

| id\_kar | bigint(20) | NO | PRI | NULL | auto\_increment |

| nama | varchar(5) | YES | | nonim | |

| sex | set('pria','wanita') | YES | | NULL | |

| gaji | int(11) | YES | | 5000000 | |

| created\_at | timestamp | YES | | CURRENT\_TIMESTAMP | DEFAULT\_GENERATED |

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

5 rows in set (0.01 sec)

mysql> insert into karyawan(nama, sex) values ('Anna', 'wanita');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

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

1 row in set (0.00 sec)

mysql> insert into karyawan (nama, sex) values

-> ('Elsa', 'wanita'),

-> ('Olaf', 'pria');

Query OK, 2 rows affected (0.00 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

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

3 rows in set (0.00 sec)

mysql> insert into karyawan (id\_kar, nama, sex) values (2,'Boni','pria,wanita');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

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

4 rows in set (0.00 sec)

mysql> insert into karyawan (id\_kar, nama, sex) values (3,'Jeje','pria');

Query OK, 1 row affected (0.00 sec)

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

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

5 rows in set (0.00 sec)

mysql> select gaji, nama from karyawan;

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

| gaji | nama |

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

| 5000000 | Anna |

| 5000000 | Boni |

| 5000000 | Jeje |

| 5000000 | Elsa |

| 5000000 | Olaf |

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

5 rows in set (0.00 sec)

mysql> select \* from karyawan limit 2,1;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

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

1 row in set (0.01 sec)

mysql> select nama, gaji, 0.03 \* gaji from karyawan;

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

| nama | gaji | 0.03 \* gaji |

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

| Anna | 5000000 | 150000.00 |

| Boni | 5000000 | 150000.00 |

| Jeje | 5000000 | 150000.00 |

| Elsa | 5000000 | 150000.00 |

| Olaf | 5000000 | 150000.00 |

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

5 rows in set (0.00 sec)

mysql> select nama, gaji, 0.03 \* gaji as pot\_bpjs from karyawan;

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

| nama | gaji | pot\_bpjs |

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

| Anna | 5000000 | 150000.00 |

| Boni | 5000000 | 150000.00 |

| Jeje | 5000000 | 150000.00 |

| Elsa | 5000000 | 150000.00 |

| Olaf | 5000000 | 150000.00 |

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

5 rows in set (0.00 sec)

mysql> select \* from karyawan order by nama;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

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

5 rows in set (0.00 sec)

mysql> select \* from karyawan order by nama, created\_at;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

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

5 rows in set (0.00 sec)

mysql> select \* from karyawan order by nama desc, created\_at;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

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

5 rows in set (0.00 sec)

mysql> insert into karyawan (nama, gaji) values ('Anna', 12000000);

Query OK, 1 row affected (0.00 sec)

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

| 6 | Anna | NULL | 12000000 | 2019-11-21 09:56:16 |

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

6 rows in set (0.00 sec)

mysql> select \* from karyawan order by nama desc, gaji;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 6 | Anna | NULL | 12000000 | 2019-11-21 09:56:16 |

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

6 rows in set (0.00 sec)

mysql> select \* from karyawan order by nama desc, gaji desc;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 6 | Anna | NULL | 12000000 | 2019-11-21 09:56:16 |

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

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

6 rows in set (0.00 sec)

mysql> select \* from karyawan where nama = 'Anna';

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 6 | Anna | NULL | 12000000 | 2019-11-21 09:56:16 |

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

2 rows in set (0.01 sec)

mysql> select \* from karyawan where gaji > 8000000;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 6 | Anna | NULL | 12000000 | 2019-11-21 09:56:16 |

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

1 row in set (0.00 sec)

mysql> select \* from karyawan where gaji between 4000000 and 8000000;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

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

5 rows in set (0.00 sec)

mysql> select \* from karyawan where gaji > 4000000 and gaji < 8000000;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

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

5 rows in set (0.00 sec)

mysql> select \* from karyawan where nama like 'a%';

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 6 | Anna | NULL | 12000000 | 2019-11-21 09:56:16 |

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

2 rows in set (0.00 sec)

mysql> select \* from karyawan where nama like '%i';

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

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

1 row in set (0.00 sec)

mysql> select \* from karyawan where nama like '%ls%';

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

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

1 row in set (0.00 sec)

mysql> select \* from karyawan where nama != 'Anna';

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

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

4 rows in set (0.00 sec)

mysql> select count(\*) from karyawan;

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

| count(\*) |

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

| 6 |

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

1 row in set (0.01 sec)

mysql> select count(\*) from karyawan where nama = 'Anna';

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

| count(\*) |

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

| 2 |

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

1 row in set (0.01 sec)

mysql> select count(nama) from karyawan where nama = 'Anna';

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

| count(nama) |

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

| 2 |

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

1 row in set (0.00 sec)

mysql> select count(sex) from karyawan;

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

| count(sex) |

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

| 5 |

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

1 row in set (0.00 sec)

mysql> select max(gaji) from karyawan;

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

| max(gaji) |

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

| 12000000 |

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

1 row in set (0.01 sec)

mysql> select max(gaji) as gaji\_tertinggi from karyawan;

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

| gaji\_tertinggi |

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

| 12000000 |

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

1 row in set (0.00 sec)

mysql> select min(gaji) from karyawan;

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

| min(gaji) |

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

| 5000000 |

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

1 row in set (0.00 sec)

mysql> select sum(gaji) from karyawan;

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

| sum(gaji) |

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

| 37000000 |

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

1 row in set (0.01 sec)

mysql> select avg(gaji) from karyawan;

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

| avg(gaji) |

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

| 6166666.6667 |

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

1 row in set (0.00 sec)

mysql> select avg(gaji) from karyawan where gaji < 6166666;

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

| avg(gaji) |

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

| 5000000.0000 |

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

1 row in set (0.00 sec)

mysql> select \* from karyawan where gaji < 6166666;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

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

5 rows in set (0.00 sec)

mysql> select \* from karyawan where gaji <(

-> select avg(gaji) from karyawan

-> );

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 2 | Boni | pria,wanita | 5000000 | 2019-11-21 09:42:36 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

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

5 rows in set (0.00 sec)

mysql> select avg(gaji) from(

-> select \* from karyawan where gaji < (

-> select avg(gaji) from karyawan

-> )) as myQueary;

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

| avg(gaji) |

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

| 5000000.0000 |

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

1 row in set (0.00 sec)

mysql> delete from karyawan where id\_kar = 2;

Query OK, 1 row affected (0.01 sec)

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Anna | wanita | 5000000 | 2019-11-21 09:35:47 |

| 3 | Jeje | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Elsa | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Olaf | pria | 5000000 | 2019-11-21 09:40:24 |

| 6 | Anna | NULL | 12000000 | 2019-11-21 09:56:16 |

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

5 rows in set (0.00 sec)

mysql> update karyawan set nama = 'Budi';

Query OK, 5 rows affected (0.01 sec)

Rows matched: 5 Changed: 5 Warnings: 0

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Budi | wanita | 5000000 | 2019-11-21 09:35:47 |

| 3 | Budi | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Budi | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Budi | pria | 5000000 | 2019-11-21 09:40:24 |

| 6 | Budi | NULL | 12000000 | 2019-11-21 09:56:16 |

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

5 rows in set (0.00 sec)

mysql> update karyawan set nama = 'Ani' where sex = 'Wanita';

Query OK, 2 rows affected (0.00 sec)

Rows matched: 2 Changed: 2 Warnings: 0

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Ani | wanita | 5000000 | 2019-11-21 09:35:47 |

| 3 | Budi | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Ani | wanita | 5000000 | 2019-11-21 09:40:24 |

| 5 | Budi | pria | 5000000 | 2019-11-21 09:40:24 |

| 6 | Budi | NULL | 12000000 | 2019-11-21 09:56:16 |

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

5 rows in set (0.00 sec)

mysql> update karyawan set

-> nama = 'Dina', gaji = 7500000

-> where id\_kar = 4;

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Ani | wanita | 5000000 | 2019-11-21 09:35:47 |

| 3 | Budi | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Dina | wanita | 7500000 | 2019-11-21 09:40:24 |

| 5 | Budi | pria | 5000000 | 2019-11-21 09:40:24 |

| 6 | Budi | NULL | 12000000 | 2019-11-21 09:56:16 |

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

5 rows in set (0.00 sec)

mysql> describe karyawan;

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

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

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

| id\_kar | bigint(20) | NO | PRI | NULL | auto\_increment |

| nama | varchar(5) | YES | | nonim | |

| sex | set('pria','wanita') | YES | | NULL | |

| gaji | int(11) | YES | | 5000000 | |

| created\_at | timestamp | YES | | CURRENT\_TIMESTAMP | DEFAULT\_GENERATED |

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

5 rows in set (0.00 sec)

mysql> alter table karyawan

-> add column

-> alamat text;

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe karyawan;

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

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

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

| id\_kar | bigint(20) | NO | PRI | NULL | auto\_increment |

| nama | varchar(5) | YES | |

nonim | |

| sex | set('pria','wanita') | YES | | NULL | |

| gaji | int(11) | YES | | 5000000 | |

| created\_at | timestamp | YES | | CURRENT\_TIMESTAMP | DEFAULT\_GENERATED |

| alamat | text | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> alter table karyawan

-> drop column alamat;

Query OK, 0 rows affected (0.13 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | gaji | created\_at |

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

| 1 | Ani | wanita | 5000000 | 2019-11-21 09:35:47 |

| 3 | Budi | pria | 5000000 | 2019-11-21 09:44:10 |

| 4 | Dina | wanita | 7500000 | 2019-11-21 09:40:24 |

| 5 | Budi | pria | 5000000 | 2019-11-21 09:40:24 |

| 6 | Budi | NULL | 12000000 | 2019-11-21 09:56:16 |

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

5 rows in set (0.00 sec)

mysql> alter table karyawan

-> add column

-> alamat text

-> after sex;

Query OK, 0 rows affected (0.13 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from karyawan;

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

| id\_kar | nama | sex | alamat | gaji | created\_at |

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

| 1 | Ani | wanita | NULL | 5000000 | 2019-11-21 09:35:47 |

| 3 | Budi | pria | NULL | 5000000 | 2019-11-21 09:44:10 |

| 4 | Dina | wanita | NULL | 7500000 | 2019-11-21 09:40:24 |

| 5 | Budi | pria | NULL | 5000000 | 2019-11-21 09:40:24 |

| 6 | Budi | NULL | NULL | 12000000 | 2019-11-21 09:56:16 |

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

5 rows in set (0.00 sec)

mysql> alter table karyawan

-> modify column

-> sex set('pria', 'wanita')

-> after gaji;

Query OK, 0 rows affected (0.13 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from karyawan;

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

| id\_kar | nama | alamat | gaji | sex | created\_at |

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

| 1 | Ani | NULL | 5000000 | wanita | 2019-11-21 09:35:47 |

| 3 | Budi | NULL | 5000000 | pria | 2019-11-21 09:44:10 |

| 4 | Dina | NULL | 7500000 | wanita | 2019-11-21 09:40:24 |

| 5 | Budi | NULL | 5000000 | pria | 2019-11-21 09:40:24 |

| 6 | Budi | NULL | 12000000 | NULL | 2019-11-21 09:56:16 |

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

5 rows in set (0.00 sec)

mysql> describe karyawan;

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

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

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

| id\_kar | bigint(20) | NO | PRI | NULL | auto\_increment |

| nama | varchar(5) | YES | | nonim | |

| alamat | text | YES | | NULL | |

| gaji | int(11) | YES | | 5000000 | |

| sex | set('pria','wanita') | YES | | NULL | |

| created\_at | timestamp | YES | | CURRENT\_TIMESTAMP | DEFAULT\_GENERATED |

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

6 rows in set (0.00 sec)

mysql> alter table karyawan

-> modify column

-> nama varchar(50) default 'Anonim';

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe karyawan;

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

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

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

| id\_kar | bigint(20) | NO | PRI | NULL | auto\_increment |

| nama | varchar(50) | YES | | Anonim | |

| alamat | text | YES | | NULL | |

| gaji | int(11) | YES | | 5000000 | |

| sex | set('pria','wanita') | YES | | NULL | |

| created\_at | timestamp | YES | | CURRENT\_TIMESTAMP | DEFAULT\_GENERATED |

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

6 rows in set (0.00 sec)

mysql> alter table karyawan

-> modify column

-> nama varchar(50) default 'Anonim'

-> after gaji;

Query OK, 0 rows affected (0.13 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from karyawan;

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

| id\_kar | alamat | gaji | nama | sex | created\_at |

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

| 1 | NULL | 5000000 | Ani | wanita | 2019-11-21 09:35:47 |

| 3 | NULL | 5000000 | Budi | pria | 2019-11-21 09:44:10 |

| 4 | NULL | 7500000 | Dina | wanita | 2019-11-21 09:40:24 |

| 5 | NULL | 5000000 | Budi | pria | 2019-11-21 09:40:24 |

| 6 | NULL | 12000000 | Budi | NULL | 2019-11-21 09:56:16 |

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

5 rows in set (0.00 sec)

mysql> alter table karyawan

-> rename column

-> sex to gender;

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from karyawan;

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

| id\_kar | alamat | gaji | nama | gender | created\_at |

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

| 1 | NULL | 5000000 | Ani | wanita | 2019-11-21 09:35:47 |

| 3 | NULL | 5000000 | Budi | pria | 2019-11-21 09:44:10 |

| 4 | NULL | 7500000 | Dina | wanita | 2019-11-21 09:40:24 |

| 5 | NULL | 5000000 | Budi | pria | 2019-11-21 09:40:24 |

| 6 | NULL | 12000000 | Budi | NULL | 2019-11-21 09:56:16 |

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

5 rows in set (0.00 sec)

Untuk connect ke python karena access denied:

mysql> alter\_user 'root'@localhost'

'> ;

'> ^C

mysql> alter user 'root'@'localhost'

-> identified with mysql\_native\_password by '1992Kadek';

Query OK, 0 rows affected (0.01 sec)

mysql>

**22/11/2019**

Apples-MacBook-Pro:~ apple$ /usr/local/mysql/bin/mysql -u root -p

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 11

Server version: 8.0.18 MySQL Community Server - GPL

Copyright (c) 2000, 2019, Oracle and/or its affiliates. All rights reserved.

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affiliates. Other names may be trademarks of their respective

owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create table tabelA(

-> id\_user int,

-> username varchar(255),

-> id\_bagian int,

-> primary key(id\_user)

-> );

Query OK, 0 rows affected (0.02 sec)

mysql> describe tabelA;

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

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

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

| id\_user | int(11) | NO | PRI | NULL | |

| username | varchar(255) | YES | | NULL | |

| id\_bagian | int(11) | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> create table tabelB(

-> id\_bagian int,

-> namaBagian varchar (255)

-> );

Query OK, 0 rows affected (0.01 sec)

mysql> describe tabelB;

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

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

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

| id\_bagian | int(11) | YES | | NULL | |

| namaBagian | varchar(255) | YES | | NULL | |

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

2 rows in set (0.00 sec)

mysql> insert into tabelA values

-> (1, 'Andi', 1),

-> (2, 'Budi', 1),

-> (3, 'Caca', 2),

-> (4, 'Deni', 2),

-> (5, 'Euis', 1);

Query OK, 5 rows affected (0.00 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select \* from tabelA;

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

| id\_user | username | id\_bagian |

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

| 1 | Andi | 1 |

| 2 | Budi | 1 |

| 3 | Caca | 2 |

| 4 | Deni | 2 |

| 5 | Euis | 1 |

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

5 rows in set (0.00 sec)

mysql> insert into tabelB values

-> (1, 'Human Resource'),

-> (2, 'Marketing'),

-> (3, 'Finance'),

-> (4, 'Engineer');

Query OK, 4 rows affected (0.00 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select \* from tabelB;

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

| id\_bagian | namaBagian |

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

| 1 | Human Resource |

| 2 | Marketing |

| 3 | Finance |

| 4 | Engineer |

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

4 rows in set (0.00 sec)

mysql> select username, namaBagian from

-> tabelA iner join tabelB

-> using(id\_bagian);

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

| username | namaBagian |

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

| Andi | Human Resource |

| Budi | Human Resource |

| Caca | Marketing |

| Deni | Marketing |

| Euis | Human Resource |

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

5 rows in set (0.00 sec)

mysql> select username, namaBagian from

-> tabelA left join tabelB

-> on tabelA.id\_bagian=tabelB.id\_bagian;

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

| username | namaBagian |

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

| Andi | Human Resource |

| Budi | Human Resource |

| Euis | Human Resource |

| Caca | Marketing |

| Deni | Marketing |

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

5 rows in set (0.00 sec)

mysql> select username, namaBagian from

-> tabelA right join tabelB

-> on tabelA.id\_bagian=tabelB.id\_bagian;

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

| username | namaBagian |

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

| Andi | Human Resource |

| Budi | Human Resource |

| Caca | Marketing |

| Deni | Marketing |

| Euis | Human Resource |

| NULL | Finance |

| NULL | Engineer |

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

7 rows in set (0.00 sec)

mysql> select username, namaBagian from

-> tabelA inner join tabelB

-> on tabelA.id\_bagian=tabelB.id\_bagian;

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

| username | namaBagian |

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

| Andi | Human Resource |

| Budi | Human Resource |

| Caca | Marketing |

| Deni | Marketing |

| Euis | Human Resource |

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

5 rows in set (0.00 sec)

mysql> insert into tabelA values

-> (6, 'Fafa', 10);

Query OK, 1 row affected (0.00 sec)

mysql> select username, namaBagian from

-> tabelA left join tabelB

-> on tabelA.id\_bagian=tabelB.id\_bagian;

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

| username | namaBagian |

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

| Andi | Human Resource |

| Budi | Human Resource |

| Euis | Human Resource |

| Caca | Marketing |

| Deni | Marketing |

| Fafa | NULL |

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

6 rows in set (0.00 sec)

mysql> select username, namaBagian from

-> tabelA left join tabelB

-> on tabelA.id\_bagian=tabelB.id\_bagian

-> where tabelB.id\_bagian is null;

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

| username | namaBagian |

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

| Fafa | NULL |

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

1 row in set (0.00 sec)

mysql> select username, namaBagian from

-> tabelA right join tabelB

-> on tabelA.id\_bagian=tabelB.id\_bagian -> where tabelA.username is null;

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

| username | namaBagian |

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

| NULL | Finance |

| NULL | Engineer |

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

2 rows in set (0.00 sec)

mysql> select username, namaBagian from -> tabelA left outer join tabelB

-> using(id\_bagian)

-> union

-> select username, namaBagian from

-> tabelA right outer join tabelB

-> using(id\_bagian);

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

| username | namaBagian |

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

| Andi | Human Resource |

| Budi | Human Resource |

| Euis | Human Resource |

| Caca | Marketing |

| Deni | Marketing |

| Fafa | NULL |

| NULL | Finance |

| NULL | Engineer |

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

8 rows in set (0.00 sec)

mysql> use ptabc

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

Database changed

mysql> select username, namaBagian from

-> tabelA left outer join tabelB

-> using(id\_bagian)

-> where tabelB.id\_bagian is null

-> union

-> select username, namaBagian from

-> tabelA right outer join tabelB

-> using(id\_bagian)

-> where tabelA.id\_bagian is null; +----------+------------+

| username | namaBagian |

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

| Fafa | NULL |

| NULL | Finance |

| NULL | Engineer |

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

3 rows in set (0.00 sec)

mysql>

mysql> select city.name, country.name from

-> city inner join country

-> on city.countrycode = country.code

-> where country.code = 'idn';

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

| name | name |

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

| Jakarta | Indonesia |

| Surabaya | Indonesia |

| Bandung | Indonesia |

| Medan | Indonesia |

| Palembang | Indonesia |

| Tangerang | Indonesia |

| Semarang | Indonesia |

| Ujung Pandang | Indonesia |

| Malang | Indonesia |

| Bandar Lampung | Indonesia |

| Bekasi | Indonesia |

| Padang | Indonesia |

| Surakarta | Indonesia |

| Banjarmasin | Indonesia |

| Pekan Baru | Indonesia |

| Denpasar | Indonesia |

| Yogyakarta | Indonesia |

| Pontianak | Indonesia |

| Samarinda | Indonesia |

| Jambi | Indonesia |

| Depok | Indonesia |

| Cimahi | Indonesia |

| Balikpapan | Indonesia |

| Manado | Indonesia |

| Mataram | Indonesia |

| Pekalongan | Indonesia |

| Tegal | Indonesia |

| Bogor | Indonesia |

| Ciputat | Indonesia |

| Pondokgede | Indonesia |

| Cirebon | Indonesia |

| Kediri | Indonesia |

| Ambon | Indonesia |

| Jember | Indonesia |

| Cilacap | Indonesia |

| Cimanggis | Indonesia |

| Pematang Siantar | Indonesia |

| Purwokerto | Indonesia |

| Ciomas | Indonesia |

| Tasikmalaya | Indonesia |

| Madiun | Indonesia |

| Bengkulu | Indonesia |

| Karawang | Indonesia |

| Banda Aceh | Indonesia |

| Palu | Indonesia |

| Pasuruan | Indonesia |

| Kupang | Indonesia |

| Tebing Tinggi | Indonesia |

| Percut Sei Tuan | Indonesia |

| Binjai | Indonesia |

| Sukabumi | Indonesia |

| Waru | Indonesia |

| Pangkal Pinang | Indonesia |

| Magelang | Indonesia |

| Blitar | Indonesia |

| Serang | Indonesia |

| Probolinggo | Indonesia |

| Cilegon | Indonesia |

| Cianjur | Indonesia |

| Ciparay | Indonesia |

| Lhokseumawe | Indonesia |

| Taman | Indonesia |

| Depok | Indonesia |

| Citeureup | Indonesia |

| Pemalang | Indonesia |

| Klaten | Indonesia |

| Salatiga | Indonesia |

| Cibinong | Indonesia |

| Palangka Raya | Indonesia |

| Mojokerto | Indonesia |

| Purwakarta | Indonesia |

| Garut | Indonesia |

| Kudus | Indonesia |

| Kendari | Indonesia |

| Jaya Pura | Indonesia |

| Gorontalo | Indonesia |

| Majalaya | Indonesia |

| Pondok Aren | Indonesia |

| Jombang | Indonesia |

| Sunggal | Indonesia |

| Batam | Indonesia |

| Padang Sidempuan | Indonesia |

| Sawangan | Indonesia |

| Banyuwangi | Indonesia |

| Tanjung Pinang | Indonesia |

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

85 rows in set (0.00 sec)

mysql> create view kotaidn as -> select city.name as kota, country.name as negara from

-> city inner join country

-> on city.countrycode = country.code -> where country.code = 'idn'; Query OK, 0 rows affected (0.01 sec)

mysql> select \* from kotaidn;

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

| kota | negara |

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

| Jakarta | Indonesia |

| Surabaya | Indonesia |

| Bandung | Indonesia |

| Medan | Indonesia |

| Palembang | Indonesia |

| Tangerang | Indonesia |

| Semarang | Indonesia |

| Ujung Pandang | Indonesia |

| Malang | Indonesia |

| Bandar Lampung | Indonesia |

| Bekasi | Indonesia |

| Padang | Indonesia |

| Surakarta | Indonesia |

| Banjarmasin | Indonesia |

| Pekan Baru | Indonesia |

| Denpasar | Indonesia |

| Yogyakarta | Indonesia |

| Pontianak | Indonesia |

| Samarinda | Indonesia |

| Jambi | Indonesia |

| Depok | Indonesia |

| Cimahi | Indonesia |

| Balikpapan | Indonesia |

| Manado | Indonesia |

| Mataram | Indonesia |

| Pekalongan | Indonesia |

| Tegal | Indonesia |

| Bogor | Indonesia |

| Ciputat | Indonesia |

| Pondokgede | Indonesia |

| Cirebon | Indonesia |

| Kediri | Indonesia |

| Ambon | Indonesia |

| Jember | Indonesia |

| Cilacap | Indonesia |

| Cimanggis | Indonesia |

| Pematang Siantar | Indonesia |

| Purwokerto | Indonesia |

| Ciomas | Indonesia |

| Tasikmalaya | Indonesia |

| Madiun | Indonesia |

| Bengkulu | Indonesia |

| Karawang | Indonesia |

| Banda Aceh | Indonesia |

| Palu | Indonesia |

| Pasuruan | Indonesia |

| Kupang | Indonesia |

| Tebing Tinggi | Indonesia |

| Percut Sei Tuan | Indonesia |

| Binjai | Indonesia |

| Sukabumi | Indonesia |

| Waru | Indonesia |

| Pangkal Pinang | Indonesia |

| Magelang | Indonesia |

| Blitar | Indonesia |

| Serang | Indonesia |

| Probolinggo | Indonesia |

| Cilegon | Indonesia |

| Cianjur | Indonesia |

| Ciparay | Indonesia |

| Lhokseumawe | Indonesia |

| Taman | Indonesia |

| Depok | Indonesia |

| Citeureup | Indonesia |

| Pemalang | Indonesia |

| Klaten | Indonesia |

| Salatiga | Indonesia |

| Cibinong | Indonesia |

| Palangka Raya | Indonesia |

| Mojokerto | Indonesia |

| Purwakarta | Indonesia |

| Garut | Indonesia |

| Kudus | Indonesia |

| Kendari | Indonesia |

| Jaya Pura | Indonesia |

| Gorontalo | Indonesia |

| Majalaya | Indonesia |

| Pondok Aren | Indonesia |

| Jombang | Indonesia |

| Sunggal | Indonesia |

| Batam | Indonesia |

| Padang Sidempuan | Indonesia |

| Sawangan | Indonesia |

| Banyuwangi | Indonesia |

| Tanjung Pinang | Indonesia |

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

85 rows in set (0.00 sec)

mysql> show full tables;

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

| Tables\_in\_world | Table\_type |

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

| city | BASE TABLE |

| country | BASE TABLE |

| countrylanguage | BASE TABLE |

| kotaidn | VIEW |

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

4 rows in set (0.01 sec)

mysql> alter view kotaidn as

-> select id, city.name as kota, country.name as negara from

-> city inner join country

-> on city.countrycode = country.code -> where country.code = 'idn'; Query OK, 0 rows affected (0.01 sec)

mysql> describe kotaidn;

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

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

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

| id | int(11) | NO | | 0 | |

| kota | char(35) | NO | | | |

| negara | char(52) | NO | | | |

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

3 rows in set (0.00 sec)

mysql> select \* from kotaidn limit 2;

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

| id | kota | negara |

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

| 939 | Jakarta | Indonesia |

| 940 | Surabaya | Indonesia |

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

2 rows in set (0.00 sec)

mysql> use ptabc

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

Database changed

mysql> show tables;

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

| Tables\_in\_ptabc |

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

| karyawan |

| tabelA |

| tabelB |

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

3 rows in set (0.00 sec)

mysql> describe tabelA;

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

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

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

| id\_user | int(11) | NO | PRI | NULL | |

| username | varchar(255) | YES | | NULL | |

| id\_bagian | int(11) | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> alter table tabelA

-> drop column id\_bagian;

Query OK, 0 rows affected (0.13 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* tabela;

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 'tabela' at line 1

mysql> select \* from tabela;

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

| id\_user | username |

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

| 1 | Andi |

| 2 | Budi |

| 3 | Caca |

| 4 | Deni |

| 5 | Euis |

| 6 | Fafa |

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

6 rows in set (0.00 sec)

mysql> select \* from tabelb;

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

| id\_bagian | namaBagian |

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

| 1 | Human Resource |

| 2 | Marketing |

| 3 | Finance |

| 4 | Engineer |

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

4 rows in set (0.00 sec)

mysql> create table tabelab(

-> user\_id int,

-> bagian\_id int);

Query OK, 0 rows affected (0.01 sec)

mysql> describe tabelab;

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

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

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

| user\_id | int(11) | YES | | NULL | |

| bagian\_id | int(11) | YES | | NULL | |

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

2 rows in set (0.00 sec)

mysql> insert into tabelab values

-> (1,1),

-> (2,2),

-> (3,2),

-> (4,3),

-> (5,4),

-> (6,3);

Query OK, 6 rows affected (0.00 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> select \* from tabelab;

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

| user\_id | bagian\_id |

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

| 1 | 1 |

| 2 | 2 |

| 3 | 2 |

| 4 | 3 |

| 5 | 4 |

| 6 | 3 |

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

6 rows in set (0.00 sec)

mysql> select \* from tabela;

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

| id\_user | username |

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

| 1 | Andi |

| 2 | Budi |

| 3 | Caca |

| 4 | Deni |

| 5 | Euis |

| 6 | Fafa |

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

6 rows in set (0.00 sec)

mysql> select \* from tabelb;

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

| id\_bagian | namaBagian |

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

| 1 | Human Resource |

| 2 | Marketing |

| 3 | Finance |

| 4 | Engineer |

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

4 rows in set (0.00 sec)

mysql> select \* from

-> tabela inner join tabelab

-> on tabela.id\_user = tabelab.user\_id

-> inner join tabelb

-> on tabelb.id\_bagian = tabelab.bagian\_id;

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

| id\_user | username | user\_id | bagian\_id | id\_bagian | namaBagian |

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

| 1 | Andi | 1 | 1 | 1 | Human Resource |

| 2 | Budi | 2 | 2 | 2 | Marketing |

| 3 | Caca | 3 | 2 | 2 | Marketing |

| 4 | Deni | 4 | 3 | 3 | Finance |

| 5 | Euis | 5 | 4 | 4 | Engineer |

| 6 | Fafa | 6 | 3 | 3 | Finance |

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

6 rows in set (0.00 sec)

mysql> select username, namabagian from

-> tabela inner join tabelab

-> on tabela.id\_user = tabelab.user\_id

-> inner join tabelb

-> on tabelb.id\_bagian = tabelab.bagian\_id; +----------+----------------+

| username | namabagian |

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

| Andi | Human Resource |

| Budi | Marketing |

| Caca | Marketing |

| Deni | Finance |

| Euis | Engineer |

| Fafa | Finance |

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

6 rows in set (0.00 sec)

mysql> select username, namabagian from -> tabela a, tabelab ab, tabelb b

-> where a.id\_user = ab.user\_id and b.id\_bagian = ab.bagian\_id;

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

| username | namabagian |

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

| Andi | Human Resource |

| Budi | Marketing |

| Caca | Marketing |

| Deni | Finance |

| Euis | Engineer |

| Fafa | Finance |

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

6 rows in set (0.00 sec)

**LATIHAN MYSQL**

1. select \* from city order by population desc limit 10;

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

| ID | Name | CountryCode | District | Population |

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

| 1024 | Mumbai (Bombay) | IND | Maharashtra | 10500000 |

| 2331 | Seoul | KOR | Seoul | 9981619 |

| 206 | São Paulo | BRA | São Paulo | 9968485 |

| 1890 | Shanghai | CHN | Shanghai | 9696300 |

| 939 | Jakarta | IDN | Jakarta Raya | 9604900 |

| 2822 | Karachi | PAK | Sindh | 9269265 |

| 3357 | Istanbul | TUR | Istanbul | 8787958 |

| 2515 | Ciudad de México | MEX | Distrito Federal | 8591309 |

| 3580 | Moscow | RUS | Moscow (City) | 8389200 |

| 3793 | New York | USA | New York | 8008278 |

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

1. mysql> select code,name,continent,region,indepyear as tahun\_merdeka from country where indepyear is not null order by indepyear ASC limit 10;

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

| code | name | continent | region | tahun\_merdeka |

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

| CHN | China | Asia | Eastern Asia | -1523 |

| ETH | Ethiopia | Africa | Eastern Africa | -1000 |

| JPN | Japan | Asia | Eastern Asia | -660 |

| DNK | Denmark | Europe | Nordic Countries | 800 |

| SWE | Sweden | Europe | Nordic Countries | 836 |

| FRA | France | Europe | Western Europe | 843 |

| SMR | San Marino | Europe | Southern Europe | 885 |

| GBR | United Kingdom | Europe | British Islands | 1066 |

| PRT | Portugal | Europe | Southern Europe | 1143 |

| AND | Andorra | Europe | Southern Europe | 1278 |

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

10 rows in set (0.00 sec)

1. mysql> select continent,count(\*)as jumlah\_negara,sum(population) as population, avg(lifeexpectancy) as rata\_AngkaHrpnHdp from country group by (continent) order by population desc limit 10;

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

| continent | jumlah\_negara | population | rata\_AngkaHrpnHdp |

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

| Asia | 51 | 3705025700 | 67.44118 |

| Africa | 58 | 784475000 | 52.57193 |

| Europe | 46 | 730074600 | 75.14773 |

| North America | 37 | 482993000 | 72.99189 |

| South America | 14 | 345780000 | 70.94615 |

| Oceania | 28 | 30401150 | 69.71500 |

| Antarctica | 5 | 0 | NULL |

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

7 rows in set (0.00 sec)

mysql> select continent,count(\*)as jumlah\_negara,sum(population) as population, avg(lifeexpectancy) as rata\_AngkaHrpnHdp from country where lifeexpectancy !=0 group by (continent) order by population desc limit 10;

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

| continent | jumlah\_negara | population | rata\_AngkaHrpnHdp |

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

| Asia | 51 | 3705025700 | 67.44118 |

| Africa | 57 | 784475000 | 52.57193 |

| Europe | 44 | 730070400 | 75.14773 |

| North America | 37 | 482993000 | 72.99189 |

| South America | 13 | 345778000 | 70.94615 |

| Oceania | 20 | 30377000 | 69.71500 |

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

1. mysql> select \* from (select name,continent, lifeExpectancy as angkaHarapanHidup,GNP from country where continent = 'Asia') as tabel where angkaharapanhidup > (select avg(lifeexpectancy)from country where continent = 'Europe')order by angkaharapanhidup desc;

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

| name | continent | angkaHarapanHidup | GNP |

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

| Macao | Asia | 81.6 | 5749.00 |

| Japan | Asia | 80.7 | 3787042.00 |

| Singapore | Asia | 80.1 | 86503.00 |

| Hong Kong | Asia | 79.5 | 166448.00 |

| Israel | Asia | 78.6 | 97477.00 |

| Jordan | Asia | 77.4 | 7526.00 |

| Cyprus | Asia | 76.7 | 9333.00 |

| Taiwan | Asia | 76.4 | 256254.00 |

| Kuwait | Asia | 76.1 | 27037.00 |

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

9 rows in set (0.00 sec)

1. mysql> select \* from(select countrycode,country.name,language,isofficial,percentage from countrylanguage inner join country on countrylanguage.countrycode=country.code order by percentage desc) as tabel where language = 'English' and isofficial = 'T' limit 10;

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

| countrycode | name | language | isofficial | percentage |

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

| BMU | Bermuda | English | T | 100.0 |

| IRL | Ireland | English | T | 98.4 |

| GBR | United Kingdom | English | T | 97.3 |

| GIB | Gibraltar | English | T | 88.9 |

| NZL | New Zealand | English | T | 87.0 |

| USA | United States | English | T | 86.2 |

| VIR | Virgin Islands, U.S. | English | T | 81.7 |

| AUS | Australia | English | T | 81.2 |

| CAN | Canada | English | T | 60.4 |

| BLZ | Belize | English | T | 50.8 |

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

1. mysql> select country.name as negara\_ASEAN,country.population as populasi\_negara,GNP,city.name as Nama\_ibukota,city.population from country inner join city on country.capital=city.id where region = 'southeast asia';

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

| negara\_ASEAN | populasi\_negara | GNP | Nama\_ibukota | population |

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

| Brunei | 328000 | 11705.00 | Bandar Seri Begawan | 21484 |

| Indonesia | 212107000 | 84982.00 | Jakarta | 9604900 |

| Cambodia | 11168000 | 5121.00 | Phnom Penh | 570155 |

| Laos | 5433000 | 1292.00 | Vientiane | 531800 |

| Myanmar | 45611000 | 180375.00 | Rangoon (Yangon) | 3361700 |

| Malaysia | 22244000 | 69213.00 | Kuala Lumpur | 1297526 |

| Philippines | 75967000 | 65107.00 | Manila | 1581082 |

| Singapore | 3567000 | 86503.00 | Singapore | 4017733 |

| Thailand | 61399000 | 116416.00 | Bangkok | 6320174 |

| East Timor | 885000 | 0.00 | Dili | 47900 |

| Vietnam | 79832000 | 21929.00 | Hanoi | 1410000 |

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

1. mysql> select \* from(select country.name as Negara\_G20,country.population as Population\_Negara,GNP,city.name as Ibu\_Kota,city.population as Populasi\_Ibukota from country inner join city on country.capital=city.id order by GNP desc limit 19) as tabel order by Negara\_G20 asc;

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

| Negara\_G20 | Population\_Negara | GNP | Ibu\_Kota | Populasi\_Ibukota |

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

| Argentina | 37032000 | 340238.00 | Buenos Aires | 2982146 |

| Australia | 18886000 | 351182.00 | Canberra | 322723 |

| Brazil | 170115000 | 776739.00 | Brasília | 1969868 |

| Canada | 31147000 | 598862.00 | Ottawa | 335277 |

| China | 1277558000 | 982268.00 | Peking | 7472000 |

| France | 59225700 | 1424285.00 | Paris | 2125246 |

| Germany | 82164700 | 2133367.00 | Berlin | 3386667 |

| India | 1013662000 | 447114.00 | New Delhi | 301297 |

| Italy | 57680000 | 1161755.00 | Roma | 2643581 |

| Japan | 126714000 | 3787042.00 | Tokyo | 7980230 |

| Mexico | 98881000 | 414972.00 | Ciudad de México | 8591309 |

| Netherlands | 15864000 | 371362.00 | Amsterdam | 731200 |

| Russian Federation | 146934000 | 276608.00 | Moscow | 8389200 |

| South Korea | 46844000 | 320749.00 | Seoul | 9981619 |

| Spain | 39441700 | 553233.00 | Madrid | 2879052 |

| Switzerland | 7160400 | 264478.00 | Bern | 122700 |

| Taiwan | 22256000 | 256254.00 | Taipei | 2641312 |

| United Kingdom | 59623400 | 1378330.00 | London | 7285000 |

| United States | 278357000 | 8510700.00 | Washington | 572059 |

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

**9 DESEMBER 2019/ JSDC 03**

mysql> create database sekolahku;

Query OK, 1 row affected (0.00 sec)

mysql> create table users;

ERROR 1046 (3D000): No database selected

mysql> use sekolahku;

Database changed

mysql> create table users;

ERROR 1113 (42000): A table must have at least 1 column

mysql> show tables;

Empty set (0.00 sec)

mysql> create table users(

-> id int(11) auto\_increment primary key,

-> username varchar(50),

-> email varchar(50),

-> password varchar(50),

-> created\_at timestamp default current\_timestamp,

-> updated\_at timestamp default current\_timestamp on update current\_timestamp;

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 '' at line 7

mysql> create table users(

-> id int(11) auto\_increment primary key,

-> username varchar(50),

-> email varchar(50),

-> password varchar(50),

-> created\_at timestamp default current\_timestamp,

-> updated\_at timestamp default current\_timestamp on update current\_timestamp

-> );

Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> describe users;

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

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

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

| id | int(11) | NO | PRI | NULL | auto\_increment |

| username | varchar(50) | YES | | NULL | |

| email | varchar(50) | YES | | NULL | |

| password | varchar(50) | YES | | NULL | |

| created\_at | timestamp | YES | | CURRENT\_TIMESTAMP | DEFAULT\_GENERATED |

| updated\_at | timestamp | YES | | CURRENT\_TIMESTAMP | DEFAULT\_GENERATED on update CURRENT\_TIMESTAMP |

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

6 rows in set (0.00 sec)

mysql> insert into users (username,email,password) values

-> ('Andi','andi@andi.com','12345'),

-> ('Budi','budi@budi.com','67890'),

-> ('Caca','caca@caca.com','abcde'),

-> ('Deni','deni@deni.com','fghij'),

-> ('Euis','euis@euis.com','klmno'),

-> ('Fafa','fafa@fafa.com','pqrst');

Query OK, 6 rows affected (0.00 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> select \* from users;

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

| id | username | email | password | created\_at | updated\_at |

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

| 1 | Andi | andi@andi.com | 12345 | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

| 2 | Budi | budi@budi.com | 67890 | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

| 3 | Caca | caca@caca.com | abcde | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

| 4 | Deni | deni@deni.com | fghij | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

| 5 | Euis | euis@euis.com | klmno | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

| 6 | Fafa | fafa@fafa.com | pqrst | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

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

6 rows in set (0.00 sec)

mysql> create table courses(

-> id int(11) auto\_increment primary key;

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 '' at line 2

mysql> create table courses(

-> id int(11) auto\_increment primary key,

-> course varchar(50) not null,

-> mentor varchar(50) not null,

-> tittle varchar(50) not null

-> );

Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> describe courses;

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

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

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

| id | int(11) | NO | PRI | NULL | auto\_increment |

| course | varchar(50) | NO | | NULL | |

| mentor | varchar(50) | NO | | NULL | |

| tittle | varchar(50) | NO | | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into courses(course,mentor,tittle) values

-> ('C++','Ari','Dr.'),

-> ('C#','Ari','Dr.'),

-> ('C#','Ari','Dr.'),

-> ('CSS','Cania','S.Kom'),

-> ('HTML','Cania','S.Kom'),

-> ('Javacsript','Cania','S.Kom'),

-> ('Python','Barry','S.T'),

-> ('Micropython','Barry','S.T'),

-> ('Java','Darren','M.T'),

-> ('Ruby','Darren','M.T');

Query OK, 10 rows affected (0.00 sec)

Records: 10 Duplicates: 0 Warnings: 0

mysql> select \* from courses;

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

| id | course | mentor | tittle |

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

| 1 | C++ | Ari | Dr. |

| 2 | C# | Ari | Dr. |

| 3 | C# | Ari | Dr. |

| 4 | CSS | Cania | S.Kom |

| 5 | HTML | Cania | S.Kom |

| 6 | Javacsript | Cania | S.Kom |

| 7 | Python | Barry | S.T |

| 8 | Micropython | Barry | S.T |

| 9 | Java | Darren | M.T |

| 10 | Ruby | Darren | M.T |

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

10 rows in set (0.00 sec)

mysql> create table userCourses(

-> id\_users int(11),

-> id\_course int(11)

-> );

Query OK, 0 rows affected, 2 warnings (0.01 sec)

mysql> describe userCourses;

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

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

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

| id\_users | int(11) | YES | | NULL | |

| id\_course | int(11) | YES | | NULL | |

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

2 rows in set (0.00 sec)

mysql> use ptabc;

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

Database changed

mysql> show tables;

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

| Tables\_in\_ptabc |

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

| countries |

| dup\_countries |

| job\_history |

| jobs |

| karyawan |

| tabelA |

| tabelab |

| tabelB |

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

8 rows in set (0.00 sec)

mysql> insert into karyawan (a,b,c) values (1,2,3)

-> on duplicate key update c=3;

ERROR 1054 (42S22): Unknown column 'a' in 'field list'

mysql> use sekolahku;

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

Database changed

mysql> insert into userCourses(id\_user,id\_course)values

-> (1,1),

-> (1,2),

-> (1,3),

-> (2,4),

-> (2,5),

-> (2,6),

-> (3,7),

-> (3,8),

-> (3,9),

-> (4,1),

-> (4,3),

-> (4,5),

-> (5,2),

-> (5,4),

-> (5,6),

-> (6,7),

-> (6,8),

-> (6,9);

ERROR 1054 (42S22): Unknown column 'id\_user' in 'field list'

mysql> insert into userCourses(id\_users,id\_course)values (1,1), (1,2), (1,3), (2,4), (2,5), (2,6), (3,7), (3,8), (3,9), (4,1), (4,3), (4,5), (5,2), (5,4), (5,6), (6,7), (6,8), (6,9);

Query OK, 18 rows affected (0.01 sec)

Records: 18 Duplicates: 0 Warnings: 0

mysql> select \* from userCourses;

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

| id\_users | id\_course |

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

| 1 | 1 |

| 1 | 2 |

| 1 | 3 |

| 2 | 4 |

| 2 | 5 |

| 2 | 6 |

| 3 | 7 |

| 3 | 8 |

| 3 | 9 |

| 4 | 1 |

| 4 | 3 |

| 4 | 5 |

| 5 | 2 |

| 5 | 4 |

| 5 | 6 |

| 6 | 7 |

| 6 | 8 |

| 6 | 9 |

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

18 rows in set (0.00 sec)

mysql> select id,username,course,mentor,tittle from

-> users right join courses

-> on users.id=courses.id;

ERROR 1052 (23000): Column 'id' in field list is ambiguous

mysql> select username,course,mentor,tittle from users right join courses on users.id=courses.id;

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

| username | course | mentor | tittle |

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

| Andi | C++ | Ari | Dr. |

| Budi | C# | Ari | Dr. |

| Caca | C# | Ari | Dr. |

| Deni | CSS | Cania | S.Kom |

| Euis | HTML | Cania | S.Kom |

| Fafa | Javacsript | Cania | S.Kom |

| NULL | Python | Barry | S.T |

| NULL | Micropython | Barry | S.T |

| NULL | Java | Darren | M.T |

| NULL | Ruby | Darren | M.T |

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

10 rows in set (0.00 sec)

mysql> select id as id\_,username,course,mentor,tittle from users right join courses on users.id=courses.id;

ERROR 1052 (23000): Column 'id' in field list is ambiguous

mysql> select id,username,course,mentor,tittle from users right join courses on users.name=courses.id;

ERROR 1052 (23000): Column 'id' in field list is ambiguous

mysql> select id\_,username,course,mentor,tittle from users right join courses on users.name=courses.id;

ERROR 1054 (42S22): Unknown column 'id\_' in 'field list'

mysql> select id as id\_,username,course,mentor,tittle from users right join courses on users.name=courses.id;

ERROR 1052 (23000): Column 'id' in field list is ambiguous

mysql> select id,username,course,mentor,tittle from users right join courses on users.name=courses.course;

ERROR 1052 (23000): Column 'id' in field list is ambiguous

mysql> select users.id,username,course,mentor,tittle from users right join courses on users.name=courses.course;

ERROR 1054 (42S22): Unknown column 'users.name' in 'on clause'

mysql> select a.id,a.username,b.course,b.mentor,b.tittle from users a,courses b,usercourses c where a.id=c.id\_users and c.id\_course=b.id;

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

| id | username | course | mentor | tittle |

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

| 1 | Andi | C++ | Ari | Dr. |

| 1 | Andi | C# | Ari | Dr. |

| 1 | Andi | C# | Ari | Dr. |

| 2 | Budi | CSS | Cania | S.Kom |

| 2 | Budi | HTML | Cania | S.Kom |

| 2 | Budi | Javacsript | Cania | S.Kom |

| 3 | Caca | Python | Barry | S.T |

| 3 | Caca | Micropython | Barry | S.T |

| 3 | Caca | Java | Darren | M.T |

| 4 | Deni | C++ | Ari | Dr. |

| 4 | Deni | C# | Ari | Dr. |

| 4 | Deni | HTML | Cania | S.Kom |

| 5 | Euis | C# | Ari | Dr. |

| 5 | Euis | CSS | Cania | S.Kom |

| 5 | Euis | Javacsript | Cania | S.Kom |

| 6 | Fafa | Python | Barry | S.T |

| 6 | Fafa | Micropython | Barry | S.T |

| 6 | Fafa | Java | Darren | M.T |

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

18 rows in set (0.00 sec)

mysql> select a.id,a.username,b.course,b.mentor,b.tittle from users a,courses b,usercourses c where a.id=c.id\_users and c.id\_course=b.id and tittle=S.;

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 '' at line 1

mysql> select a.id,a.username,b.course,b.mentor,b.tittle from users a,courses b,usercourses c where a.id=c.id\_users and c.id\_course=b.id and tittle=^C

mysql> select a.id,a.username,b.course,b.mentor,b.tittle from users a,courses b,usercourses c where a.id=c.id\_users and c.id\_course=b.id and b.tittle in ('S.Kom','S.T');

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

| id | username | course | mentor | tittle |

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

| 2 | Budi | CSS | Cania | S.Kom |

| 2 | Budi | HTML | Cania | S.Kom |

| 2 | Budi | Javacsript | Cania | S.Kom |

| 3 | Caca | Python | Barry | S.T |

| 3 | Caca | Micropython | Barry | S.T |

| 4 | Deni | HTML | Cania | S.Kom |

| 5 | Euis | CSS | Cania | S.Kom |

| 5 | Euis | Javacsript | Cania | S.Kom |

| 6 | Fafa | Python | Barry | S.T |

| 6 | Fafa | Micropython | Barry | S.T |

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

10 rows in set (0.01 sec)

mysql> select a.id,a.username,b.course,b.mentor,b.tittle from users a,courses b,usercourses c where a.id=c.id\_users and c.id\_course=b.id and b.tittle notin ('S.Kom','S.T');

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 'notin ('S.Kom','S.T')' at line 1

mysql> select a.id,a.username,b.course,b.mentor,b.tittle from users a,courses b,usercourses c where a.id=c.id\_users and c.id\_course=b.id and b.tittle not in ('S.Kom','S.T');

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

| id | username | course | mentor | tittle |

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

| 1 | Andi | C++ | Ari | Dr. |

| 1 | Andi | C# | Ari | Dr. |

| 1 | Andi | C# | Ari | Dr. |

| 3 | Caca | Java | Darren | M.T |

| 4 | Deni | C++ | Ari | Dr. |

| 4 | Deni | C# | Ari | Dr. |

| 5 | Euis | C# | Ari | Dr. |

| 6 | Fafa | Java | Darren | M.T |

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

8 rows in set (0.00 sec)

select \* from courses;

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

| id | course | mentor | tittle |

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

| 1 | C++ | Ari | Dr. |

| 2 | C# | Ari | Dr. |

| 3 | C# | Ari | Dr. |

| 4 | CSS | Cania | S.Kom |

| 5 | HTML | Cania | S.Kom |

| 6 | Javacsript | Cania | S.Kom |

| 7 | Python | Barry | S.T |

| 8 | Micropython | Barry | S.T |

| 9 | Java | Darren | M.T |

| 10 | Ruby | Darren | M.T |

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

10 rows in set (0.00 sec)

mysql> select \* from userCourses;

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

| id\_users | id\_course |

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

| 1 | 1 |

| 1 | 2 |

| 1 | 3 |

| 2 | 4 |

| 2 | 5 |

| 2 | 6 |

| 3 | 7 |

| 3 | 8 |

| 3 | 9 |

| 4 | 1 |

| 4 | 3 |

| 4 | 5 |

| 5 | 2 |

| 5 | 4 |

| 5 | 6 |

| 6 | 7 |

| 6 | 8 |

| 6 | 9 |

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

18 rows in set (0.00 sec)

mysql> select \* from users;

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

| id | username | email | password | created\_at | updated\_at |

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

| 1 | Andi | andi@andi.com | 12345 | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

| 2 | Budi | budi@budi.com | 67890 | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

| 3 | Caca | caca@caca.com | abcde | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

| 4 | Deni | deni@deni.com | fghij | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

| 5 | Euis | euis@euis.com | klmno | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

| 6 | Fafa | fafa@fafa.com | pqrst | 2019-12-09 14:57:44 | 2019-12-09 14:57:44 |

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

6 rows in set (0.00 sec)

mysql> select b.course,b.mentor,b.tittle,count(b.course) as Jumlah\_Peserta from users a,courses b,usercourses c where a.id=c.id\_users and c.id\_course=b.id group by (course);

ERROR 1055 (42000): Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'sekolahku.b.mentor' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql\_mode=only\_full\_group\_by

mysql> select a.username, b.course from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course;

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

| username | course |

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

| Andi | C++ |

| Andi | C# |

| Andi | C# |

| Budi | CSS |

| Budi | HTML |

| Budi | Javacsript |

| Caca | Python |

| Caca | Micropython |

| Caca | Java |

| Deni | C++ |

| Deni | C# |

| Deni | HTML |

| Euis | C# |

| Euis | CSS |

| Euis | Javacsript |

| Fafa | Python |

| Fafa | Micropython |

| Fafa | Java |

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

18 rows in set (0.00 sec)

mysql> select b.course, count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course;

ERROR 1140 (42000): In aggregated query without GROUP BY, expression #1 of SELECT list contains nonaggregated column 'sekolahku.b.course'; this is incompatible with sql\_mode=only\_full\_group\_by

mysql>

mysql> select b.course, count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course;

ERROR 1140 (42000): In aggregated query without GROUP BY, expression #1 of SELECT list contains nonaggregated column 'sekolahku.b.course'; this is incompatible with sql\_mode=only\_full\_group\_by

mysql>

mysql> select count(course) from courses;

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

| count(course) |

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

| 10 |

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

1 row in set (0.00 sec)

mysql> select count(course) from courses group by course;

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

| count(course) |

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

| 1 |

| 2 |

| 1 |

| 1 |

| 1 |

| 1 |

| 1 |

| 1 |

| 1 |

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

9 rows in set (0.01 sec)

mysql> select a.username, b.course from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course;

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

| username | course |

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

| Andi | C++ |

| Andi | C# |

| Andi | C# |

| Budi | CSS |

| Budi | HTML |

| Budi | Javacsript |

| Caca | Python |

| Caca | Micropython |

| Caca | Java |

| Deni | C++ |

| Deni | C# |

| Deni | HTML |

| Euis | C# |

| Euis | CSS |

| Euis | Javacsript |

| Fafa | Python |

| Fafa | Micropython |

| Fafa | Java |

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

18 rows in set (0.00 sec)

mysql> select b.course, count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course;

ERROR 1140 (42000): In aggregated query without GROUP BY, expression #1 of SELECT list contains nonaggregated column 'sekolahku.b.course'; this is incompatible with sql\_mode=only\_full\_group\_by

mysql> select b.course, count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course group by(b.course);

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

| course | count(b.course) |

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

| C++ | 2 |

| C# | 4 |

| CSS | 2 |

| HTML | 2 |

| Javacsript | 2 |

| Python | 2 |

| Micropython | 2 |

| Java | 2 |

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

8 rows in set (0.00 sec)

mysql> select b.course, b.mentor, b.tittle count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course group by(b.course);

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 'count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users a' at line 1

mysql> select b.course, count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course group by(b.course); +-------------+-----------------+

| course | count(b.course) |

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

| C++ | 2 |

| C# | 4 |

| CSS | 2 |

| HTML | 2 |

| Javacsript | 2 |

| Python | 2 |

| Micropython | 2 |

| Java | 2 |

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

8 rows in set (0.00 sec)

mysql> select b.course, count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course group by(b.course);

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

| course | count(b.course) |

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

| C++ | 2 |

| C# | 4 |

| CSS | 2 |

| HTML | 2 |

| Javacsript | 2 |

| Python | 2 |

| Micropython | 2 |

| Java | 2 |

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

8 rows in set (0.00 sec)

mysql> select b.course, b.mentor, b.tittle, count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course group by(b.course);

ERROR 1055 (42000): Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'sekolahku.b.mentor' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql\_mode=only\_full\_group\_by

mysql> select b.course, count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course group by(b.course);

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

| course | count(b.course) |

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

| C++ | 2 |

| C# | 4 |

| CSS | 2 |

| HTML | 2 |

| Javacsript | 2 |

| Python | 2 |

| Micropython | 2 |

| Java | 2 |

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

8 rows in set (0.00 sec)

mysql> select b.course, b.mentor, count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course group by(b.course);

ERROR 1055 (42000): Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'sekolahku.b.mentor' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql\_mode=only\_full\_group\_by

mysql> select b.course, b.tittle, count(b.course) from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course group by(b.course);

ERROR 1055 (42000): Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'sekolahku.b.tittle' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql\_mode=only\_full\_group\_by

mysql> select b.mentor, count(b.course)\*2000000 as Gaji from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course group by mentor;

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

| mentor | Gaji |

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

| Ari | 12000000 |

| Cania | 12000000 |

| Barry | 8000000 |

| Darren | 4000000 |

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

4 rows in set (0.00 sec)

mysql> select b.mentor, count(b.course) as Jumlah\_Peserta, count(b.course)\*2000000 as Gaji from users a, courses b, usercourses c where a.id = c.id\_users and b.id = c.id\_course group by mentor;

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

| mentor | Jumlah\_Peserta | Gaji |

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

| Ari | 6 | 12000000 |

| Cania | 6 | 12000000 |

| Barry | 4 | 8000000 |

| Darren | 2 | 4000000 |

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

4 rows in set (0.01 sec)

mysql>