Nama = Syakira Rata Bila Bagi

NIM = 0110123149

Rombel = SI 03

Matkul = Tugas-1 Basis data

1. **Buatlah database baru dengan nama: dbpegawai**

C:\>cd xampp/mysql/bin

C:\xampp\mysql\bin>mysql -u root -p

Enter password:

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

Your MariaDB connection id is 9

Server version: 10.4.32-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> show databases;

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

| Database |

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

| db\_puskesmas |

| dbtoko |

| information\_schema |

| mysql |

| performance\_schema |

| phpmyadmin |

| test |

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

7 rows in set (0.002 sec)

MariaDB [(none)]> create database dbpegawai;

Query OK, 1 row affected (0.004 sec)

MariaDB [(none)]>

1. **Masuk ke dbpegawai dengan perintah USE**

MariaDB [(none)]> use dbpegawai;

Database changed

MariaDB [dbpegawai]>

1. **Buatlah tabel baru dengan nama: divisi, dengan kolom-kolom sbb: id int primary key auto\_increment nama varchar(30) dengan contraint: wajib diisi dan tidak boleh sama**

MariaDB [dbpegawai]> create table divisi (

-> id int primary key auto\_increment,

-> nama varchar(30) not null unique);

Query OK, 0 rows affected (0.139 sec)

1. **Tampilkan deskripsi tabel divisi**

MariaDB [dbpegawai]> desc divisi;

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

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

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

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

| nama | varchar(30) | NO | UNI | NULL | |

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

2 rows in set (0.051 sec)

1. **Buatlah tabel baru dengan nama: jabatan, dengan kolom-kolom sbb: id int primary key auto\_increment nama varchar(30) dengan contraint: wajib diisi dan tidak boleh sama**

MariaDB [dbpegawai]> create table jabatan(

-> id int primary key auto\_increment,

-> nama varchar(30) not null unique);

Query OK, 0 rows affected (0.094 sec)

1. **Tampilkan deskripsi tabel jabatan**

MariaDB [dbpegawai]> desc jabatan;

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

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

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

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

| nama | varchar(30) | NO | UNI | NULL | |

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

2 rows in set (0.089 sec)

1. **Buatlah tabel baru dengan nama: pegawai, dengan kolom-kolom sbb: id int primary key auto\_increment nip char dengan constraint: wajib diisi, tidak boleh sama & 5 karakter nama varchar dengan constraint: wajib diisi dan maksimal 30 karakter gender enum('Laki-Laki','Perempuan') dengan constraint: wajib diisi tmp\_lahir varchar dengan constraint: wajib diisi dan maksimal 30 karakter tgl\_lahir date dengan constraint: wajib diisi iddivisi int sebagai foreign key, tidak boleh kosong, merujuk ke tabel divisi ke field id idjabatan int sebagai foreign key, tidak boleh kosong, merujuk ke tabel jabatan ke field id alamat tex**

MariaDB [dbpegawai]> CREATE TABLE pegawai (

-> id int primary key auto\_increment,

-> nip char(5) not null unique,

-> nama varchar(30) not null,

-> gender ENUM ('laki-laki', 'Perempuan')not null,

-> tempat\_lahir varchar(30) not null,

-> tanggal\_lahir date not null,

-> iddivisi INT not null,

-> idjabatan INT not null,

-> alamat TEXT,

-> FOREIGN key (iddivisi) REFERENCES divisi(id),

-> FOREIGN key (idjabatan) REFERENCES jabatan(id));

Query OK, 0 rows affected (0.083 sec)

1. **Tampilkan deskripsi tabel pegawai**

MariaDB [dbpegawai]> desc pegawai;

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

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

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

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

| nip | char(5) | NO | UNI | NULL | |

| nama | varchar(30) | NO | | NULL | |

| gender | enum('laki-laki','Perempuan') | NO | | NULL | |

| tempat\_lahir | varchar(30) | NO | | NULL | |

| tanggal\_lahir | date | NO | | NULL | |

| iddivisi | int(11) | NO | MUL | NULL | |

| idjabatan | int(11) | NO | MUL | NULL | |

| alamat | text | YES | | NULL | |

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

9 rows in set (0.054 sec)

1. **Tampilkan tabel-tabel yang ada di dbpegawai**

MariaDB [dbpegawai]> show tables;

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

| Tables\_in\_dbpegawai |

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

| divisi |

| jabatan |

| jenis |

| pegawai |

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

4 rows in set (0.003 sec)

MariaDB [dbpegawai]>

1. **input data divisi => SDM, Keuangan, Marketing, IT**

MariaDB [dbpegawai]> INSERT INTO divisi values

-> ('', 'SDM'),

-> ('', 'Keuangan'),

-> ('', 'Marketing'),

-> ('', 'IT');

Query OK, 4 rows affected, 4 warnings (0.026 sec)

Records: 4 Duplicates: 0 Warnings: 4

1. **Tampilkan seluruh data divisi**

MariaDB [dbpegawai]> select \* from divisi;

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

| id | nama |

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

| 4 | IT |

| 2 | Keuangan |

| 3 | Marketing |

| 1 | SDM |

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

4 rows in set (0.009 sec)

1. **Input data jabatan => Direktur, Manajer, Asisten Manajer, Staff**

MariaDB [dbpegawai]> INSERT INTO jabatan values

-> ('', 'Direktur'),

-> ('', 'Manajer'),

-> ('', 'Asisten Manajer'),

-> ('', 'Staff');

Query OK, 4 rows affected, 4 warnings (0.012 sec)

Records: 4 Duplicates: 0 Warnings: 4

1. **Tampilkan seluruh data jabatan**

MariaDB [dbpegawai]> select \* from jabatan;

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

| id | nama |

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

| 3 | Asisten Manajer |

| 1 | Direktur |

| 2 | Manajer |

| 4 | Staff |

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

4 rows in set (0.001 sec)

1. **Input 20 orang pegawai ( 1 divisi 5 orang, untuk gender dan jabatan diacak)**

MariaDB [dbpegawai]> INSERT INTO pegawai(nip, nama, gender, tempat\_lahir, tanggal\_lahir, iddivisi, idjabatan, alamat) VALUES

-> ('123', 'Alvaro', 'Laki-laki', 'Amerika', '1990-09-01', '1', '1', 'Chicago'),

-> ('223', 'Algafi', 'Laki-laki', 'Amerika', '1990-09-02', '1', '1', 'Chicago'),

-> ('323', 'Alkiar', 'Laki-laki', 'Amerika', '1990-09-03', '1', '1', 'Chicago'),

-> ('423', 'Altari', 'Laki-laki', 'Amerika', '1990-09-04', '1', '1', 'Chicago'),

-> ('523', 'Alghin', 'Laki-laki', 'Amerika', '1990-09-05', '1', '1', 'Chicago'),

-> ('623', 'Biatar', 'Laki-laki', 'Amerika', '1991-10-06', '2', '2', 'California'),

-> ('723', 'Biyahu', 'Laki-laki', 'Amerika', '1991-10-07', '2', '2', 'California'),

-> ('823', 'Bihzar', 'Laki-laki', 'Amerika', '1991-10-08', '2', '2', 'California'),

-> ('923', 'Bihzer', 'Laki-laki', 'Amerika', '1991-10-09', '2', '2', 'California'),

-> ('1023', 'Bihzir', 'Laki-laki', 'Amerika', '1991-10-10', '2', '2', 'California'),

-> ('1123', 'Bianca', 'Perempuan', 'Indonesia', '1992-11-11', '3', '3', 'Jakarta'),

-> ('1223', 'Bianta', 'Perempuan', 'Indonesia', '1992-11-12', '3', '3', 'Jakarta'),

-> ('1323', 'Biarti', 'Perempuan', 'Indonesia', '1992-11-13', '3', '3', 'Jakarta'),

-> ('1423', 'Berlia', 'Perempuan', 'Indonesia', '1992-11-14', '3', '3', 'Jakarta'),

-> ('1523', 'Berian', 'Perempuan', 'Indonesia', '1992-11-15', '3', '3', 'Jakarta'),

-> ('1623', 'Jaemin', 'Laki-laki', 'Korea', '1993-12-16', '4', '4', 'Busan'),

-> ('1723', 'Jisung', 'Laki-laki', 'Korea', '1993-12-17', '4', '4', 'Busan'),

-> ('1823', 'Renjun', 'Laki-laki', 'Korea', '1993-12-18', '4', '4', 'Busan'),

-> ('1923', 'Chenle', 'Laki-laki', 'Korea', '1993-12-19', '4', '4', 'Busan'),

-> ('2023', 'Markle', 'Laki-laki', 'Korea', '1993-12-20', '4', '4', 'Busan');

Query OK, 20 rows affected (0.013 sec)

Records: 20 Duplicates: 0 Warnings: 0

MariaDB [dbpegawai]>

1. **Tampilkan seluruh data pegawai**

MariaDB [dbpegawai]> select \* from pegawai;

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

| id | nip | nama | gender | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat |

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

| 1 | 123 | Alvaro | laki-laki | Amerika | 1990-09-01 | 1 | 1 | Chicago |

| 2 | 223 | Algafi | laki-laki | Amerika | 1990-09-02 | 1 | 1 | Chicago |

| 3 | 323 | Alkiar | laki-laki | Amerika | 1990-09-03 | 1 | 1 | Chicago |

| 4 | 423 | Altari | laki-laki | Amerika | 1990-09-04 | 1 | 1 | Chicago |

| 5 | 523 | Alghin | laki-laki | Amerika | 1990-09-05 | 1 | 1 | Chicago |

| 6 | 623 | Biatar | laki-laki | Amerika | 1991-10-06 | 2 | 2 | California |

| 7 | 723 | Biyahu | laki-laki | Amerika | 1991-10-07 | 2 | 2 | California |

| 8 | 823 | Bihzar | laki-laki | Amerika | 1991-10-08 | 2 | 2 | California |

| 9 | 923 | Bihzer | laki-laki | Amerika | 1991-10-09 | 2 | 2 | California |

| 10 | 1023 | Bihzir | laki-laki | Amerika | 1991-10-10 | 2 | 2 | California |

| 11 | 1123 | Bianca | Perempuan | Indonesia | 1992-11-11 | 3 | 3 | Jakarta |

| 12 | 1223 | Bianta | Perempuan | Indonesia | 1992-11-12 | 3 | 3 | Jakarta |

| 13 | 1323 | Biarti | Perempuan | Indonesia | 1992-11-13 | 3 | 3 | Jakarta |

| 14 | 1423 | Berlia | Perempuan | Indonesia | 1992-11-14 | 3 | 3 | Jakarta |

| 15 | 1523 | Berian | Perempuan | Indonesia | 1992-11-15 | 3 | 3 | Jakarta |

| 16 | 1623 | Jaemin | laki-laki | Korea | 1993-12-16 | 4 | 4 | Busan |

| 17 | 1723 | Jisung | laki-laki | Korea | 1993-12-17 | 4 | 4 | Busan |

| 18 | 1823 | Renjun | laki-laki | Korea | 1993-12-18 | 4 | 4 | Busan |

| 19 | 1923 | Chenle | laki-laki | Korea | 1993-12-19 | 4 | 4 | Busan |

| 20 | 2023 | Markle | laki-laki | Korea | 1993-12-20 | 4 | 4 | Busan |

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

20 rows in set (0.001 sec)

1. **Ubah data 5 orang pegawai (dengan ketentuan ubah 3 kolom(bebas))**

MariaDB [dbpegawai]> UPDATE pegawai SET nama = 'Markle', iddivisi = 4, idjabatan = 4 WHERE id IN (18, 19, 20);

Query OK, 2 rows affected (0.011 sec)

Rows matched: 3 Changed: 2 Warnings: 0

1. **Hapus 2 orang pegawai pegawai terakhir**

MariaDB [dbpegawai]> DELETE FROM pegawai WHERE id=19;

Query OK, 1 row affected (0.008 sec)

MariaDB [dbpegawai]> DELETE FROM pegawai WHERE id=20;

Query OK, 1 row affected (0.010 sec)

1. **Gunakan alter tabel pada tabel pegawai untuk menambahkan kolom baru berat\_badan dengan tipe data float wajib diisi, lalu input berat badan semua pegawai secara acak**

MariaDB [dbpegawai]> ALTER TABLE pegawai ADD berat\_badan FLOAT NOT NULL;

Query OK, 0 rows affected (0.029 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [dbpegawai]> UPDATE pegawai SET berat\_badan =ROUND(RAND() \* 40 + 50,2);

Query OK, 18 rows affected (0.013 sec)

Rows matched: 18 Changed: 18 Warnings: 0

1. **Gunakan alter tabel pada tabel pegawai untuk menambahkan kolom baru umur dengan tipe data integer wajib diisi, lalu input umur semua pegawai secara acak**

MariaDB [dbpegawai]> ALTER TABLE pegawai ADD umur INT NOT NULL;

Query OK, 0 rows affected (0.023 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [dbpegawai]> UPDATE pegawai SET umur = FLOOR(RAND() \* 30) + 20;

Query OK, 18 rows affected (0.013 sec)

Rows matched: 18 Changed: 18 Warnings: 0

1. **Gunakan alter tabel pada tabel pegawai untuk mengubah nama kolom gender menjadi jenis\_kelamin**

MariaDB [dbpegawai]> alter table pegawai

-> change column gender jenis\_kelamin char(1);

Query OK, 18 rows affected, 18 warnings (0.157 sec)

Records: 18 Duplicates: 0 Warnings: 18

1. **Tampilkan kolom2 tertentu di tabel pegawai (nip,nama,jenis\_kelamin,alamat)**

MariaDB [dbpegawai]> SELECT nip, nama, jenis\_kelamin, alamat FROM pegawai;

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

| nip | nama | jenis\_kelamin | alamat |

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

| 123 | Alvaro | l | Chicago |

| 223 | Algafi | l | Chicago |

| 323 | Alkiar | l | Chicago |

| 423 | Altari | l | Chicago |

| 523 | Alghin | l | Chicago |

| 623 | Biatar | l | California |

| 723 | Biyahu | l | California |

| 823 | Bihzar | l | California |

| 923 | Bihzer | l | California |

| 1023 | Bihzir | l | California |

| 1123 | Bianca | P | Jakarta |

| 1223 | Bianta | P | Jakarta |

| 1323 | Biarti | P | Jakarta |

| 1423 | Berlia | P | Jakarta |

| 1523 | Berian | P | Jakarta |

| 1623 | Jaemin | l | Busan |

| 1723 | Jisung | l | Busan |

| 1823 | Markle | l | Busan |

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

18 rows in set (0.001 sec)

1. **Tampilkan baris2 tertentu di tabel pegawai (yang gendernya laki2 saja)**

MariaDB [dbpegawai]> SELECT \* FROM pegawai

-> WHERE jenis\_kelamin = 'l';

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 1 | 123 | Alvaro | l | Amerika | 1990-09-01 | 1 | 1 | Chicago | 56.94 | 23 |

| 2 | 223 | Algafi | l | Amerika | 1990-09-02 | 1 | 1 | Chicago | 54.31 | 31 |

| 3 | 323 | Alkiar | l | Amerika | 1990-09-03 | 1 | 1 | Chicago | 50.74 | 38 |

| 4 | 423 | Altari | l | Amerika | 1990-09-04 | 1 | 1 | Chicago | 80.75 | 46 |

| 5 | 523 | Alghin | l | Amerika | 1990-09-05 | 1 | 1 | Chicago | 81.55 | 38 |

| 6 | 623 | Biatar | l | Amerika | 1991-10-06 | 2 | 2 | California | 75.48 | 30 |

| 7 | 723 | Biyahu | l | Amerika | 1991-10-07 | 2 | 2 | California | 82.74 | 47 |

| 8 | 823 | Bihzar | l | Amerika | 1991-10-08 | 2 | 2 | California | 57.27 | 35 |

| 9 | 923 | Bihzer | l | Amerika | 1991-10-09 | 2 | 2 | California | 68.15 | 45 |

| 10 | 1023 | Bihzir | l | Amerika | 1991-10-10 | 2 | 2 | California | 78.92 | 42 |

| 16 | 1623 | Jaemin | l | Korea | 1993-12-16 | 4 | 4 | Busan | 56.46 | 29 |

| 17 | 1723 | Jisung | l | Korea | 1993-12-17 | 4 | 4 | Busan | 83.71 | 25 |

| 18 | 1823 | Markle | l | Korea | 1993-12-18 | 4 | 4 | Busan | 79.15 | 48 |

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

13 rows in set (0.002 sec)

1. **Tampilkan baris2 tertentu di tabel pegawai (yang bekerja di divisi IT dan gendernya perempuan)**

MariaDB [dbpegawai]> SELECT \* FROM pegawai WHERE iddivisi = 'IT' AND jenis\_kelamin = 'P';

Empty set (0.106 sec)

1. **Tampilkan data pegawai yang umurnya di atas 30 tahun dan lahirnya di kota jakarta dengan klausa WHERE, AND**

MariaDB [dbpegawai]> SELECT \* FROM pegawai WHERE umur > 30 AND tempat\_lahir = 'Amerika';

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 2 | 223 | Algafi | l | Amerika | 1990-09-02 | 1 | 1 | Chicago | 54.31 | 31 |

| 3 | 323 | Alkiar | l | Amerika | 1990-09-03 | 1 | 1 | Chicago | 50.74 | 38 |

| 4 | 423 | Altari | l | Amerika | 1990-09-04 | 1 | 1 | Chicago | 80.75 | 46 |

| 5 | 523 | Alghin | l | Amerika | 1990-09-05 | 1 | 1 | Chicago | 81.55 | 38 |

| 7 | 723 | Biyahu | l | Amerika | 1991-10-07 | 2 | 2 | California | 82.74 | 47 |

| 8 | 823 | Bihzar | l | Amerika | 1991-10-08 | 2 | 2 | California | 57.27 | 35 |

| 9 | 923 | Bihzer | l | Amerika | 1991-10-09 | 2 | 2 | California | 68.15 | 45 |

| 10 | 1023 | Bihzir | l | Amerika | 1991-10-10 | 2 | 2 | California | 78.92 | 42 |

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

8 rows in set (0.017 sec)

1. **Tampilkan data pegawai yang bekerja pada divisi marketing, berumur lebih dari 30 tahun dan berjenis kelamin perempuan dengan klausa WHERE, AND**

MariaDB [dbpegawai]> SELECT \* FROM pegawai WHERE iddivisi = 'Marketing' AND umur >30 AND jenis\_kelamin = 'Perempuan';

Empty set (0.001 sec)

1. **Tampilkan data pegawai dengan klausa key (nip)**

MariaDB [dbpegawai]> SELECT \* FROM pegawai WHERE nip = '1023';

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 10 | 1023 | Bihzir | l | Amerika | 1991-10-10 | 2 | 2 | California | 78.92 | 42 |

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

1 row in set (0.007 sec)

1. **Tampilkan data pegawai dengan klausa non key (gender)**

MariaDB [dbpegawai]> SELECT \* FROM pegawai WHERE jenis\_kelamin= 'P';

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 11 | 1123 | Bianca | P | Indonesia | 1992-11-11 | 3 | 3 | Jakarta | 60.14 | 23 |

| 12 | 1223 | Bianta | P | Indonesia | 1992-11-12 | 3 | 3 | Jakarta | 53.95 | 32 |

| 13 | 1323 | Biarti | P | Indonesia | 1992-11-13 | 3 | 3 | Jakarta | 79.34 | 41 |

| 14 | 1423 | Berlia | P | Indonesia | 1992-11-14 | 3 | 3 | Jakarta | 64.84 | 29 |

| 15 | 1523 | Berian | P | Indonesia | 1992-11-15 | 3 | 3 | Jakarta | 76.2 | 33 |

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

5 rows in set (0.001 sec)

1. **Tampilkan data pegawai dengan klausa in (menyebutkan beberapa nip)**

MariaDB [dbpegawai]> SELECT \* FROM pegawai WHERE nip IN ('1023', '1123', '1223');

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 10 | 1023 | Bihzir | l | Amerika | 1991-10-10 | 2 | 2 | California | 78.92 | 42 |

| 11 | 1123 | Bianca | P | Indonesia | 1992-11-11 | 3 | 3 | Jakarta | 60.14 | 23 |

| 12 | 1223 | Bianta | P | Indonesia | 1992-11-12 | 3 | 3 | Jakarta | 53.95 | 32 |

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

3 rows in set (0.001 sec)

1. **Tampilkan data pegawai dengan klausa not in (menyebutkan beberapa tempat lahir)**

MariaDB [dbpegawai]> SELECT \* FROM pegawai

-> WHERE tempat\_lahir not in ('Jakarta', 'California', 'Amerika');

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 11 | 1123 | Bianca | P | Indonesia | 1992-11-11 | 3 | 3 | Jakarta | 60.14 | 23 |

| 12 | 1223 | Bianta | P | Indonesia | 1992-11-12 | 3 | 3 | Jakarta | 53.95 | 32 |

| 13 | 1323 | Biarti | P | Indonesia | 1992-11-13 | 3 | 3 | Jakarta | 79.34 | 41 |

| 14 | 1423 | Berlia | P | Indonesia | 1992-11-14 | 3 | 3 | Jakarta | 64.84 | 29 |

| 15 | 1523 | Berian | P | Indonesia | 1992-11-15 | 3 | 3 | Jakarta | 76.2 | 33 |

| 16 | 1623 | Jaemin | l | Korea | 1993-12-16 | 4 | 4 | Busan | 56.46 | 29 |

| 17 | 1723 | Jisung | l | Korea | 1993-12-17 | 4 | 4 | Busan | 83.71 | 25 |

| 18 | 1823 | Markle | l | Korea | 1993-12-18 | 4 | 4 | Busan | 79.15 | 48 |

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

8 rows in set (0.001 sec)

MariaDB [dbpegawai]> SELECT \* FROM pegawai

-> WHERE tempat\_lahir not in ('Indonesia', 'Korea', 'Amerika');

Empty set (0.001 sec)

1. **Tampilkan data pegawai berdasarkan nama secara ascending**

MariaDB [dbpegawai]> SELECT \* FROM pegawai order by nama asc;

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 2 | 223 | Algafi | l | Amerika | 1990-09-02 | 1 | 1 | Chicago | 54.31 | 31 |

| 5 | 523 | Alghin | l | Amerika | 1990-09-05 | 1 | 1 | Chicago | 81.55 | 38 |

| 3 | 323 | Alkiar | l | Amerika | 1990-09-03 | 1 | 1 | Chicago | 50.74 | 38 |

| 4 | 423 | Altari | l | Amerika | 1990-09-04 | 1 | 1 | Chicago | 80.75 | 46 |

| 1 | 123 | Alvaro | l | Amerika | 1990-09-01 | 1 | 1 | Chicago | 56.94 | 23 |

| 15 | 1523 | Berian | P | Indonesia | 1992-11-15 | 3 | 3 | Jakarta | 76.2 | 33 |

| 14 | 1423 | Berlia | P | Indonesia | 1992-11-14 | 3 | 3 | Jakarta | 64.84 | 29 |

| 11 | 1123 | Bianca | P | Indonesia | 1992-11-11 | 3 | 3 | Jakarta | 60.14 | 23 |

| 12 | 1223 | Bianta | P | Indonesia | 1992-11-12 | 3 | 3 | Jakarta | 53.95 | 32 |

| 13 | 1323 | Biarti | P | Indonesia | 1992-11-13 | 3 | 3 | Jakarta | 79.34 | 41 |

| 6 | 623 | Biatar | l | Amerika | 1991-10-06 | 2 | 2 | California | 75.48 | 30 |

| 8 | 823 | Bihzar | l | Amerika | 1991-10-08 | 2 | 2 | California | 57.27 | 35 |

| 9 | 923 | Bihzer | l | Amerika | 1991-10-09 | 2 | 2 | California | 68.15 | 45 |

| 10 | 1023 | Bihzir | l | Amerika | 1991-10-10 | 2 | 2 | California | 78.92 | 42 |

| 7 | 723 | Biyahu | l | Amerika | 1991-10-07 | 2 | 2 | California | 82.74 | 47 |

| 16 | 1623 | Jaemin | l | Korea | 1993-12-16 | 4 | 4 | Busan | 56.46 | 29 |

| 17 | 1723 | Jisung | l | Korea | 1993-12-17 | 4 | 4 | Busan | 83.71 | 25 |

| 18 | 1823 | Markle | l | Korea | 1993-12-18 | 4 | 4 | Busan | 79.15 | 48 |

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

18 rows in set (0.001 sec)

1. **Tampilkan data pegawai dari yang berat badan paling gemuk ke paling kurus**

MariaDB [dbpegawai]> SELECT \* FROM pegawai order by berat\_badan desc;

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 17 | 1723 | Jisung | l | Korea | 1993-12-17 | 4 | 4 | Busan | 83.71 | 25 |

| 7 | 723 | Biyahu | l | Amerika | 1991-10-07 | 2 | 2 | California | 82.74 | 47 |

| 5 | 523 | Alghin | l | Amerika | 1990-09-05 | 1 | 1 | Chicago | 81.55 | 38 |

| 4 | 423 | Altari | l | Amerika | 1990-09-04 | 1 | 1 | Chicago | 80.75 | 46 |

| 13 | 1323 | Biarti | P | Indonesia | 1992-11-13 | 3 | 3 | Jakarta | 79.34 | 41 |

| 18 | 1823 | Markle | l | Korea | 1993-12-18 | 4 | 4 | Busan | 79.15 | 48 |

| 10 | 1023 | Bihzir | l | Amerika | 1991-10-10 | 2 | 2 | California | 78.92 | 42 |

| 15 | 1523 | Berian | P | Indonesia | 1992-11-15 | 3 | 3 | Jakarta | 76.2 | 33 |

| 6 | 623 | Biatar | l | Amerika | 1991-10-06 | 2 | 2 | California | 75.48 | 30 |

| 9 | 923 | Bihzer | l | Amerika | 1991-10-09 | 2 | 2 | California | 68.15 | 45 |

| 14 | 1423 | Berlia | P | Indonesia | 1992-11-14 | 3 | 3 | Jakarta | 64.84 | 29 |

| 11 | 1123 | Bianca | P | Indonesia | 1992-11-11 | 3 | 3 | Jakarta | 60.14 | 23 |

| 8 | 823 | Bihzar | l | Amerika | 1991-10-08 | 2 | 2 | California | 57.27 | 35 |

| 1 | 123 | Alvaro | l | Amerika | 1990-09-01 | 1 | 1 | Chicago | 56.94 | 23 |

| 16 | 1623 | Jaemin | l | Korea | 1993-12-16 | 4 | 4 | Busan | 56.46 | 29 |

| 2 | 223 | Algafi | l | Amerika | 1990-09-02 | 1 | 1 | Chicago | 54.31 | 31 |

| 12 | 1223 | Bianta | P | Indonesia | 1992-11-12 | 3 | 3 | Jakarta | 53.95 | 32 |

| 3 | 323 | Alkiar | l | Amerika | 1990-09-03 | 1 | 1 | Chicago | 50.74 | 38 |

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

18 rows in set (0.001 sec)

1. **Tampilkan data 5 pegawai teratas gunakan klausa limit**

MariaDB [dbpegawai]> SELECT \* FROM pegawai LIMIT 5;

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 1 | 123 | Alvaro | l | Amerika | 1990-09-01 | 1 | 1 | Chicago | 56.94 | 23 |

| 2 | 223 | Algafi | l | Amerika | 1990-09-02 | 1 | 1 | Chicago | 54.31 | 31 |

| 3 | 323 | Alkiar | l | Amerika | 1990-09-03 | 1 | 1 | Chicago | 50.74 | 38 |

| 4 | 423 | Altari | l | Amerika | 1990-09-04 | 1 | 1 | Chicago | 80.75 | 46 |

| 5 | 523 | Alghin | l | Amerika | 1990-09-05 | 1 | 1 | Chicago | 81.55 | 38 |

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

5 rows in set (0.007 sec)

1. **Tampilkan data 5 pegawai terbawah gunakan klausa limit offset**

MariaDB [dbpegawai]> SELECT \* FROM pegawai limit 5 offset 12;

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 13 | 1323 | Biarti | P | Indonesia | 1992-11-13 | 3 | 3 | Jakarta | 79.34 | 41 |

| 14 | 1423 | Berlia | P | Indonesia | 1992-11-14 | 3 | 3 | Jakarta | 64.84 | 29 |

| 15 | 1523 | Berian | P | Indonesia | 1992-11-15 | 3 | 3 | Jakarta | 76.2 | 33 |

| 16 | 1623 | Jaemin | l | Korea | 1993-12-16 | 4 | 4 | Busan | 56.46 | 29 |

| 17 | 1723 | Jisung | l | Korea | 1993-12-17 | 4 | 4 | Busan | 83.71 | 25 |

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

5 rows in set (0.001 sec)

1. **Tampilkan jumlah pegawai gunakan fungsi aggregrat count**

MariaDB [dbpegawai]> SELECT count(\*) from pegawai;

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

| count(\*) |

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

| 18 |

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

1 row in set (0.014 sec)

1. **Tampilkan nip,nama pegawai, umur yg paling tua gunakan fungsi aggregrat max (kombinasi dengan sub query)**

MariaDB [dbpegawai]> SELECT nip, nama, umur

-> FROM pegawai

-> WHERE umur = (SELECT MAX(umur) FROM pegawai);

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

| nip | nama | umur |

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

| 1823 | Markle | 48 |

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

1 row in set (0.178 sec)

1. **Tampilkan nip,nama pegawai, berat\_badan yg paling kurus gunakan fungsi aggregrat min (kombinasi dengan sub query)**

MariaDB [dbpegawai]> SELECT nip, nama, berat\_badan

-> FROM pegawai

-> WHERE berat\_badan = (SELECT MIN(berat\_badan) FROM pegawai);

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

| nip | nama | berat\_badan |

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

| 323 | Alkiar | 50.74 |

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

1 row in set (0.010 sec)

1. **Tampilkan data rata2 umur pegawai gunakan fungsi aggregrat avg**

MariaDB [dbpegawai]> SELECT AVG(umur) AS rata\_rata\_umur FROM pegawai;

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

| rata\_rata\_umur |

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

| 35.2778 |

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

1 row in set (0.010 sec)

1. **Tampilkan jumlah data pegawai yang laki2 dan berumur lebih dari 40 tahun dan berjabatan Manajer, gunakan fungsi aggregrat count dan klausa AND**

MariaDB [dbpegawai]> SELECT COUNT(\*) AS umur FROM pegawai WHERE umur > 40 AND jenis\_kelamin = 'l' AND idjabatan = 2;

+------+

| umur |

+------+

| 3 |

+------+

1 row in set (0.059 sec)

1. **Tampilkan jumlah data pegawai yang perempuan dan berumur kurang dari 40 tahun dan berjabatan Staff, gunakan fungsi aggregrat count dan klausa AND**

MariaDB [dbpegawai]> SELECT COUNT(\*) AS umur FROM pegawai WHERE umur > 40 AND jenis\_kelamin = 'p' AND idjabatan = 4;

+------+

| umur |

+------+

| 0 |

+------+

1 row in set (0.006 sec)

1. **Tampilkan jumlah data pegawai yang perempuan gunakan fungsi aggregrat count**

MariaDB [dbpegawai]> SELECT COUNT(\*) AS jenis\_kelamin FROM pegawai WHERE jenis\_kelamin = 'P';

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

| jenis\_kelamin |

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

| 5 |

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

1 row in set (0.001 sec)

1. **Tampilkan jumlah pegawai yang bekerja di divisi SDM dengan fungsi aggregrat sum dan klausa WHERE 2 NO SOAL BOBOT**

MariaDB [dbpegawai]> SELECT SUM(iddivisi) AS divisi\_SDM FROM pegawai WHERE iddivisi = 1;

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

| divisi\_SDM |

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

| 5 |

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

1 row in set (0.008 sec)

1. **Tampilkan jumlah pegawai berdasarkan divisi masing2 menggunakan fungsi aggregrat count dan klausa group by 5**

MariaDB [dbpegawai]> SELECT iddivisi, COUNT(\*) AS jumlah\_pegawai FROM pegawai GROUP BY iddivisi;

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

| iddivisi | jumlah\_pegawai |

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

| 1 | 5 |

| 2 | 5 |

| 3 | 5 |

| 4 | 3 |

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

4 rows in set (0.010 sec)

1. **Tampilkan data jumlah pegawai berdasarkan gender, yg jumlah minimal 10 orang (gunakan group by dan having)**

MariaDB [dbpegawai]> SELECT jenis\_kelamin, COUNT(\*) AS jumlah\_gender FROM pegawai

-> GROUP BY jenis\_kelamin HAVING COUNT(\*) >= 10;

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

| jenis\_kelamin | jumlah\_gender |

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

| l | 13 |

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

1 row in set (0.011 sec)

1. **Cari data pegawai yang berawalan kata Muhammad**

MariaDB [dbpegawai]> SELECT \* FROM pegawai WHERE nama LIKE 'Jaemin';

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 16 | 1623 | Jaemin | l | Korea | 1993-12-16 | 4 | 4 | Busan | 56.46 | 29 |

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

1 row in set (0.004 sec)

1. **Cari data pegawai yang berakhiran kata Santoso**

MariaDB [dbpegawai]> SELECT \* FROM pegawai WHERE nama LIKE 'Berlia';

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

| id | nip | nama | jenis\_kelamin | tempat\_lahir | tanggal\_lahir | iddivisi | idjabatan | alamat | berat\_badan | umur |

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

| 14 | 1423 | Berlia | P | Indonesia | 1992-11-14 | 3 | 3 | Jakarta | 64.84 | 29 |

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

1 row in set (0.001 sec)

1. **Cari data pegawai yang mengadung kata Asep**

MariaDB [dbpegawai]> SELECT \* FROM pegawai WHERE nama LIKE 'Asep';

Empty set (0.001 sec)

1. **Cari data pegawai yang huruf kelimanya huruf S**

MariaDB [dbpegawai]> SELECT \* FROM pegawai WHERE nama LIKE 'S';

Empty set (0.001 sec)