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A. SOAL 01

```
Database changed
MariaDB [db_akademik]> SELECT jenis_kelamin, COUNT(nim) AS total FROM ms_mahasiswa GROUP BY jenis_kelamin;
+-----+-----+
| jenis_kelamin | total |
+-----+-----+
| L             | 7     |
| P             | 3     |
+-----+-----+
2 rows in set (0.001 sec)

MariaDB [db_akademik]> |
```

B. SOAL 02

```
MariaDB [db_akademik]> SELECT semester, COUNT(nim) AS total FROM ms_mahasiswa GROUP BY semester;
+-----+-----+
| semester | total |
+-----+-----+
| 1         | 3     |
| 2         | 2     |
| 3         | 2     |
| 4         | 3     |
+-----+-----+
4 rows in set (0.001 sec)

MariaDB [db_akademik]> |
```

C. SOAL 03

```
MariaDB [db_akademik]> SELECT DISTINCT kota FROM ms_mahasiswa;
+-----+
| kota |
+-----+
| Jayapura |
| Biak |
| Sarmi |
+-----+
3 rows in set (0.001 sec)

MariaDB [db_akademik]> |
```

D. SOAL 04

```
MariaDB [db_akademik]> SELECT nim,nama_mahasiswa,nama_unit FROM ms_mahasiswa,ms_unit WHERE ms_mahasiswa.kode_unit=ms_unit.kode_unit AND ms_unit.kode_unit='202';
+-----+-----+-----+
| nim | nama_mahasiswa | nama_unit |
+-----+-----+-----+
| 04102003 | Ari Rishadi | Program Studi Teknik Informatika |
| 04102005 | TUBAGUS | Program Studi Teknik Informatika |
| 04102007 | Nathalia Damastuti | Program Studi Teknik Informatika |
| 04102009 | Akhmad Faikar Abduh | Program Studi Teknik Informatika |
| 04102010 | Sri Ayami | Program Studi Teknik Informatika |
+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [db_akademik]> |
```

E. SOAL 05

```
MariaDB [db_akademik]> SELECT nama_unit,COUNT(nim) AS total FROM ms_unit,ms_mahasiswa WHERE ms_unit.kode_unit=ms_mahasiswa.kode_unit GROUP BY nama_unit;
+-----+-----+
| nama_unit | total |
+-----+-----+
| Program Studi Sistem Informasi | 5 |
| Program Studi Teknik Informatika | 5 |
+-----+-----+
2 rows in set (0.001 sec)

MariaDB [db_akademik]> |
```

F. SOAL 06

```
MariaDB [db_akademik]> SELECT ms_unit.kode_unit,nama_unit,COUNT(nim) AS total FROM ms_unit,ms_mahasiswa WHERE ms_unit.kode_unit=ms_mahasiswa.kode_unit AND ms_mahasiswa.semester='1' GROUP BY nama_unit;
```

kode_unit	nama_unit	total
201	Program Studi Sistem Informasi	2
202	Program Studi Teknik Informatika	1

2 rows in set (0.005 sec)

```
MariaDB [db_akademik]> |
```

G. SOAL 07

```
MariaDB [db_akademik]> SELECT kode_unit,nama_unit FROM ms_unit WHERE kode_unit IN(SELECT kode_unit FROM ms_mahasiswa);
```

kode_unit	nama_unit
201	Program Studi Sistem Informasi
202	Program Studi Teknik Informatika

2 rows in set (0.001 sec)

```
MariaDB [db_akademik]> |
```

H. SOAL 08

```
MariaDB [db_akademik]> SELECT ms_unit.kode_unit,nama_unit,COUNT(nim) AS total FROM ms_unit,ms_mahasiswa WHERE ms_unit.kode_unit=ms_mahasiswa.kode_unit AND ms_mahasiswa.semester<='3' GROUP BY nama_unit;
```

kode_unit	nama_unit	total
201	Program Studi Sistem Informasi	4
202	Program Studi Teknik Informatika	3

2 rows in set (0.001 sec)

```
MariaDB [db_akademik]> |
```

I. SOAL 09

```
MariaDB [db_akademik]> SELECT nim,nama_mahasiswa,IF(kode_unit='201','Sistem Informasi','Teknik Informatika') AS jenis_prodi FROM ms_mahasiswa;
```

nim	nama_mahasiswa	jenis_prodi
04102001	Nur Qomari	Sistem Informasi
04102002	Fatin Anfusina	Sistem Informasi
04102003	Ari Rishadi	Teknik Informatika
04102004	Eman Setiawan	Sistem Informasi
04102005	TUBAGUS	Teknik Informatika
04102006	Feri Hendrawan	Sistem Informasi
04102007	Nathalia Damastuti	Teknik Informatika
04102008	Johan Yan	Sistem Informasi
04102009	Akhmad Faikar Abduh	Teknik Informatika
04102010	Sri Ayami	Teknik Informatika

10 rows in set (0.001 sec)

```
MariaDB [db_akademik]> |
```

J. SOAL 10

```
MariaDB [db_akademik]> SELECT DISTINCT ms_mahasiswa.kode_unit,nama_unit FROM ms_mahasiswa INNER JOIN ms_unit ON ms_mahasiswa.kode_unit=ms_unit.kode_unit;
```

kode_unit	nama_unit
201	Program Studi Sistem Informasi
202	Program Studi Teknik Informatika

2 rows in set (0.001 sec)

```
MariaDB [db_akademik]> |
```

K. SOAL 11

```
MariaDB [db_akademik]> SELECT nim,nama_mahasiswa,nama_unit FROM ms_mahasiswa RIGHT JOIN ms_unit ON ms_mahasiswa.kode_unit=ms_unit.kode_unit ORDER BY nim,nama_unit;
```

nim	nama_mahasiswa	nama_unit
NULL	NULL	Fakultas Ekonomi & Bisnis
NULL	NULL	Fakultas Ilmu Komputer
NULL	NULL	Program Studi Akuntansi
NULL	NULL	Program Studi Manajemen
04102001	Nur Qomari	Program Studi Sistem Informasi
04102002	Fatin Anfusina	Program Studi Sistem Informasi
04102003	Ari Rishadi	Program Studi Teknik Informatika
04102004	Eman Setiawan	Program Studi Sistem Informasi
04102005	TUBAGUS	Program Studi Teknik Informatika
04102006	Feri Hendrawan	Program Studi Sistem Informasi
04102007	Nathalia Damastuti	Program Studi Teknik Informatika
04102008	Johan Yan	Program Studi Sistem Informasi
04102009	Akhmad Faikar Abduh	Program Studi Teknik Informatika
04102010	Sri Ayami	Program Studi Teknik Informatika

```
14 rows in set (0.001 sec)

MariaDB [db_akademik]> |
```

L. SOAL 12

```
MariaDB [db_akademik]> SELECT nim,nama_mahasiswa,tgl_lahir FROM ms_mahasiswa WHERE MONTH(tgl_lahir)='01';
```

nim	nama_mahasiswa	tgl_lahir
04102004	Eman Setiawan	1999-01-30
04102010	Sri Ayami	1999-01-15

```
2 rows in set (0.001 sec)

MariaDB [db_akademik]> |
```

M. SOAL 13

```
MariaDB [db_akademik]> SELECT nim,nama_mahasiswa,tgl_lahir FROM ms_mahasiswa WHERE YEAR(tgl_lahir)='1999' AND MONTH(tgl_lahir)<='5';
```

nim	nama_mahasiswa	tgl_lahir
04102002	Fatin Anfusina	1999-04-13
04102003	Ari Rishadi	1999-05-12
04102004	Eman Setiawan	1999-01-30
04102006	Feri Hendrawan	1999-03-12
04102010	Sri Ayami	1999-01-15

```
5 rows in set (0.001 sec)

MariaDB [db_akademik]> |
```

N. SOAL 14

```
MariaDB [db_akademik]> SELECT nim,tgl_lahir,TIMESTAMPDIFF(YEAR,tgl_lahir,CURDATE()) AS umur FROM ms_mahasiswa;
```

nim	tgl_lahir	umur
04102001	1998-12-05	24
04102002	1999-04-13	24
04102003	1999-05-12	24
04102004	1999-01-30	24
04102005	1998-02-25	25
04102006	1999-03-12	24
04102007	1999-08-20	23
04102008	1999-07-23	23
04102009	1998-10-31	24
04102010	1999-01-15	24

```
10 rows in set (0.000 sec)

MariaDB [db_akademik]> |
```

O. SOAL 15

```
MariaDB [db_akademik]> SELECT LEFT(nim,3) AS str_nim,nama_mahasiswa FROM ms_mahasiswa;
```

str_nim	nama_mahasiswa
041	Nur Qomari
041	Fatin Anfusina
041	Ari Rishadi
041	Eman Setiawan
041	TUBAGUS
041	Feri Hendrawan
041	Nathalia Damastuti
041	Johan Van
041	Akhmad Faikar Abduh
041	Sri Ayami

```
10 rows in set (0.000 sec)
```

```
MariaDB [db_akademik]> |
```

P. SOAL 16

```
MariaDB [db_akademik]> SELECT RIGHT(nim,4) AS str_nim,nama_mahasiswa FROM ms_mahasiswa;
```

str_nim	nama_mahasiswa
2001	Nur Qomari
2002	Fatin Anfusina
2003	Ari Rishadi
2004	Eman Setiawan
2005	TUBAGUS
2006	Feri Hendrawan
2007	Nathalia Damastuti
2008	Johan Van
2009	Akhmad Faikar Abduh
2010	Sri Ayami

```
10 rows in set (0.001 sec)
```

```
MariaDB [db_akademik]> |
```