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TUGAS BASIS DATA

- Membuat Data Base Latihan 2
- Membuat Tabel dengan nama biodata

```
MySQL 8.0 Command Line Client - Unicode
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 16
Server version: 8.0.31 MySQL Community Server - GPL

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owners.

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

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (2.35 sec)

mysql> create database latihan2;
Query OK, 1 row affected (0.44 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| latihan2 |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.06 sec)

mysql> use latihan2;
Database changed
mysql> create table biodata (nama varchar (15), alamat varchar (15));
Query OK, 0 rows affected (0.62 sec)
```

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- Menambah kolom Keterangan (varchar 15)
- Menambah kolom id (int 11)

MySQL 8.0 Command Line Client - Unicode

Query OK, 0 rows affected (0.62 sec)

mysql> desc biodata;

Field	Type	Null	Key	Default	Extra
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	

2 rows in set (0.16 sec)

mysql> alter table biodata add column keterangan varchar (15);

Query OK, 0 rows affected (0.23 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc biodata;

Field	Type	Null	Key	Default	Extra
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	
keterangan	varchar(15)	YES		NULL	

3 rows in set (0.00 sec)

mysql> alter table biodata add column id int(11) first;

Query OK, 0 rows affected, 1 warning (0.29 sec)

Records: 0 Duplicates: 0 Warnings: 1

mysql> desc biodata;

Field	Type	Null	Key	Default	Extra
id	int	YES		NULL	
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	
keterangan	varchar(15)	YES		NULL	

4 rows in set (0.01 sec)

mysql> alter table biodata add column phone varchar (15) after alamat;

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

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- Sisipkan kolom dengan nama phon (varchar 15) setelah kolom alamat
- Ubah kolom id menjadi char (11)
- Ubah kolom phone menjadi hp (varchar 20)

MySQL 8.0 Command Line Client - Unicode

```
mysql> alter table biodata add column phone varchar (15) after alamat;
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc biodata;
```

Field	Type	Null	Key	Default	Extra
id	int	YES		NULL	
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	
phone	varchar(15)	YES		NULL	
keterangan	varchar(15)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> alter table biodata modify column id char (11);
Query OK, 0 rows affected (0.24 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc biodata;
```

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	
phone	varchar(15)	YES		NULL	
keterangan	varchar(15)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> alter table biodata change column phone hp varchar(20);
Query OK, 0 rows affected (0.19 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc biodata;
```

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	

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- Tambah kolom email setelah hp
- Hapus Kolom Keterangan dari tabel

MySQL 8.0 Command Line Client - Unicode

mysql> desc biodata;

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	
hp	varchar(20)	YES		NULL	
keterangan	varchar(15)	YES		NULL	

5 rows in set (0.00 sec)

mysql> alter table biodata add column email text after hp;

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc biodata;

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	
hp	varchar(20)	YES		NULL	
email	text	YES		NULL	
keterangan	varchar(15)	YES		NULL	

6 rows in set (0.01 sec)

mysql> alter table biodata drop column keterangan;

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc biodata;

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	
hp	varchar(20)	YES		NULL	
email	text	YES		NULL	

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- Ganti nama Tabel menjadi data_mahasiswa
- Ganti nama id menjadi nim

```

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+----+-----+-----+-----+-----+
| email | text | YES | | NULL | |
+----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> alter table biodata rename data_mahasiswa;
Query OK, 0 rows affected (0.10 sec)

mysql> desc data_mahasiswa;
+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| id | char(11) | YES | | NULL | |
| nama | varchar(15) | YES | | NULL | |
| alamat | varchar(15) | YES | | NULL | |
| hp | varchar(20) | YES | | NULL | |
| email | text | YES | | NULL | |
+----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> alter table data_mahasiswa change id nim char(11);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc data_mahasiswa;
+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| nim | char(11) | YES | | NULL | |
| nama | varchar(15) | YES | | NULL | |
| alamat | varchar(15) | YES | | NULL | |
| hp | varchar(20) | YES | | NULL | |
| email | text | YES | | NULL | |
+----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> alter table data_mahasiswa add primary key (nim);
Query OK, 0 rows affected (0.43 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc data_mahasiswa;
+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| nim | char(11) | NO | PRI | NULL | |

```

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- Jadikan Nim sebagai Primary Key
- Jadikan Kolom email sebagai Unique Key

MySQL 8.0 Command Line Client - Unicode

mysql> desc data_mahasiswa;

Field	Type	Null	Key	Default	Extra
nim	char(11)	NO	PRI	NULL	
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	
hp	varchar(20)	YES		NULL	
email	text	YES		NULL	

5 rows in set (0.01 sec)

mysql> alter table data_mahasiswa modify column email varchar(20);

Query OK, 0 rows affected (0.17 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc data_mahasiswa;

Field	Type	Null	Key	Default	Extra
nim	char(11)	NO	PRI	NULL	
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	
hp	varchar(20)	YES		NULL	
email	varchar(20)	YES		NULL	

5 rows in set (0.00 sec)

mysql> alter table data_mahasiswa add unique key (email);

Query OK, 0 rows affected (0.13 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc data_mahasiswa;

Field	Type	Null	Key	Default	Extra
nim	char(11)	NO	PRI	NULL	
nama	varchar(15)	YES		NULL	
alamat	varchar(15)	YES		NULL	
hp	varchar(20)	YES		NULL	
email	varchar(20)	YES	UNI	NULL	

5 rows in set (0.00 sec)

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