



Data Definition Language

Pendekatan Teori dan Praktik

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POLITEKNIK NEGERI LAMPUNG

DDL / Data Definition Language

DDL merupakan perintah SQL yang berhubungan dengan pendefinisian suatu struktur database, dalam hal ini database dan table. Perintah SQL yang termasuk dalam DDL antara lain :

CREATE

COMMENT

ALTER

RENAME / ALTER

DROP

TRUNCATE

CREATE

Sintak:

```
CREATE DATABASE DatabaseName;
```

Contoh:

```
CREATE DATABASE AKADEMIK;
```

DROP

Sintak:

```
DROP DATABASE DatabaseName;
```

Contoh:

```
DROP DATABASE AKADEMIK;
```

CREATE

Sintak:

```
CREATE TABLE TableName  
( column1 datatype constraint,  
  column2 datatype constraint,  
  column3 datatype constraint,  
  ....  
  columnN datatype constraint,  
  PRIMARY KEY( one or more columns )  
);
```

CREATE

Contoh:

```
CREATE TABLE PRODI  
(  
  idprodi int IDENTITY(1,1) PRIMARY KEY,  
  nmprodi nvarchar (50) NOT NULL,  
  akreditasi varchar (1) NOT NULL default('A'),  
  thn_berdiri varchar (4) NULL  
)
```

ALTER

The basic syntax of **ALTER TABLE** to **ADD** a new column in an existing table is as follows:

Sintak:

```
ALTER TABLE TableName ADD ColumnName datatype;
```

Contoh:

```
ALTER TABLE PRODI ADD email varchar (50) NULL;
```

ALTER

The basic syntax of ALTER TABLE to **DROP COLUMN** in an existing table is as follows:

Sintak:

```
ALTER TABLE TableName DROP COLUMN ColumnName;
```

Contoh:

```
ALTER TABLE PRODI DROP COLUMN email;
```


ALTER

The basic syntax of ALTER TABLE to change the **DATA TYPE** of a column in a table is as follows:

Sintak:

```
ALTER TABLE TableName MODIFY COLUMN ColumnName datatype;
```

Contoh:

```
ALTER TABLE PRODI MODIFY COLUMN thn_berdiri nvarchar (4);
```

ALTER

The basic syntax of ALTER TABLE to add a **NOT NULL** constraint to a column in a table is as follows:

Sintak:

```
ALTER TABLE TableName MODIFY ColumnName datatype NOT NULL;
```

Contoh:

```
ALTER TABLE PRODI MODIFY COLUMN thn_berdiri nvarchar (4) NOT NULL;
```

TRUNCATE

Sintak:

```
TRUNCATE TABLE TableName;
```

Contoh:

```
TRUNCATE TABLE PRODI;
```