	DEPARTAMENTO INFORMÁTICA
IES NTRA SRA LOS REMEDIOS - UBRIQUE	CURSO 14-15
	C.F.G.S. D.A.W.
	MODULO BASES DE DATOS

TEMA 5. Lenguaje SQL – DDL

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1 CREATE DATABASE

```
CREATE {DATABASE | SCHEMA} [IF NOT EXISTS] db_name
    [create_specification [, create_specification] ...]
```

create_specification:

```
    [DEFAULT] CHARACTER SET charset_name
    | [DEFAULT] COLLATE collation_name
```

2 DROP DATABASE




```
DROP {DATABASE | SCHEMA} [IF EXISTS] db_name
```

3 CREATE TABLE

```
CREATE [TEMPORARY] TABLE [IF NOT EXISTS] tbl_name
    [(old_tbl_name )];
```

create_definition:

```
    column_definition
    | [CONSTRAINT [symbol]] PRIMARY KEY [index_type] (index_col_name,...)
    | KEY [index_name] [index_type] (index_col_name,...)
    | INDEX [index_name] [index_type] (index_col_name,...)
    | [CONSTRAINT [symbol]] UNIQUE [INDEX]
        [index_name] [index_type] (index_col_name,...)
```

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```
| [FULLTEXT|SPATIAL] [INDEX] [index_name] (index_col_name,...)
| [CONSTRAINT [symbol]] FOREIGN KEY
| [index_name] (index_col_name,...) [reference_definition]
| CHECK (expr)
```

column_definition:


```
col_name type [NOT NULL | NULL] [DEFAULT default_value]
[AUTO_INCREMENT] [UNIQUE [KEY] | [PRIMARY] KEY]
[COMMENT 'string'] [reference_definition]
```

type:

```
TINYINT[(length)] [UNSIGNED] [ZEROFILL]
| SMALLINT[(length)] [UNSIGNED] [ZEROFILL]
| MEDIUMINT[(length)] [UNSIGNED] [ZEROFILL]
| INT[(length)] [UNSIGNED] [ZEROFILL]
| INTEGER[(length)] [UNSIGNED] [ZEROFILL]
| BIGINT[(length)] [UNSIGNED] [ZEROFILL]
| REAL[(length,decimals)] [UNSIGNED] [ZEROFILL]
| DOUBLE[(length,decimals)] [UNSIGNED] [ZEROFILL]
| FLOAT[(length,decimals)] [UNSIGNED] [ZEROFILL]
| DECIMAL(length,decimals) [UNSIGNED] [ZEROFILL]
| NUMERIC(length,decimals) [UNSIGNED] [ZEROFILL]
| DATE
| TIME
| TIMESTAMP
| DATETIME
| CHAR(length) [BINARY | ASCII | UNICODE]
| VARCHAR(length) [BINARY]
| TINYBLOB
| BLOB
| MEDIUMBLOB
| LONGBLOB
| TINYTEXT [BINARY]
| TEXT [BINARY]
| MEDIUMTEXT [BINARY]
| LONGTEXT [BINARY]
| ENUM(value1,value2,value3,...)
| SET(value1,value2,value3,...)
| spatial_type
```

index_col_name:

```
col_name [(length)] [ASC | DESC]
```

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reference_definition:

```
REFERENCES tbl_name [(index_col_name,...)]
[MATCH FULL | MATCH PARTIAL | MATCH SIMPLE]
[ON DELETE reference_option]
[ON UPDATE reference_option]
```

reference_option:

```
RESTRICT | CASCADE | SET NULL | NO ACTION
```

table_options: *table_option* [*table_option*] ...

table_option:




```
{ENGINE|TYPE} = engine_name
| AUTO_INCREMENT = value
| AVG_ROW_LENGTH = value
| [DEFAULT] CHARACTER SET charset_name [COLLATE collation_name]
| CHECKSUM = {0 | 1}
| COMMENT = 'string'
| MAX_ROWS = value
| MIN_ROWS = value
| PACK_KEYS = {0 | 1 | DEFAULT}
| PASSWORD = 'string'
| DELAY_KEY_WRITE = {0 | 1}
| ROW_FORMAT = {DEFAULT|DYNAMIC|FIXED|COMPRESSED|REDUNDANT|COMPACT}
| RAID_TYPE = { 1 | STRIPED | RAID0 }
    RAID_CHUNKS = value
    RAID_CHUNKSIZE = value
| UNION = (tbl_name [, tbl_name] ...)
| INSERT_METHOD = { NO | FIRST | LAST }
| DATA DIRECTORY = 'absolute path to directory'
| INDEX DIRECTORY = 'absolute path to directory'
```

4 ALTER TABLE

```
ALTER [IGNORE] TABLE tbl_name
    alter_specification [, alter_specification] ...
```

alter_specification:

```
ADD [COLUMN] column_definition [FIRST | AFTER col_name ]
| ADD [COLUMN] (column_definition,...)
| ADD INDEX [index_name] [index_type] (index_col_name,...)
| ADD [CONSTRAINT [symbol]]
    PRIMARY KEY [index_type] (index_col_name,...)
```

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```

| ADD [CONSTRAINT [symbol]]
    UNIQUE [index_name] [index_type] (index_col_name,...)
| ADD [FULLTEXT|SPATIAL] [index_name] (index_col_name,...)
| ADD [CONSTRAINT [symbol]]
    FOREIGN KEY [index_name] (index_col_name,...)
    [reference_definition]
| ALTER [COLUMN] col_name {SET DEFAULT literal | DROP DEFAULT}
| CHANGE [COLUMN] old_col_name column_definition
    [FIRST|AFTER col_name]
| MODIFY [COLUMN] column_definition [FIRST | AFTER col_name]
| DROP [COLUMN] col_name
| DROP PRIMARY KEY
| DROP INDEX index_name
| DROP FOREIGN KEY fk_symbol
| DISABLE KEYS
| ENABLE KEYS
| RENAME [TO] new_tbl_name
| ORDER BY col_name
| CONVERT TO CHARACTER SET charset_name [COLLATE collation_name]
| [DEFAULT] CHARACTER SET charset_name [COLLATE collation_name]
| DISCARD TABLESPACE
| IMPORT TABLESPACE
| table_options

```

5 DROP TABLE

```

DROP [TEMPORARY] TABLE [IF EXISTS]
    tbl_name [, tbl_name] ...
    [RESTRICT | CASCADE]

```

6 RENAME TABLE

```

RENAME TABLE tbl_name TO new_tbl_name
    [, tbl_name2 TO new_tbl_name2] ...

```

7 CREATE INDEX

```

CREATE [UNIQUE|FULLTEXT|SPATIAL] INDEX index_name
    [USING index_type]

```

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```
ON tbl_name (index_col_name,...)
```

index_col_name:

```
col_name [(length)] [ASC | DESC]
```

8 DROP INDEX

```
DROP INDEX index_name ON tbl_name
```