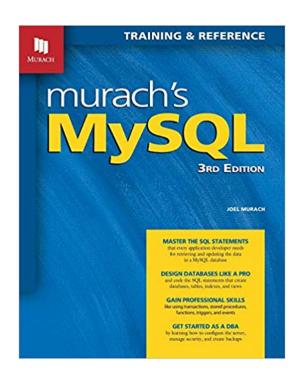
### **OTHER DDL Commands**

Topic 3

Lesson 10 – More commands for table structure modification

# Chapter 5, 11 Murach's MySQL



# **CREATE TABLE AS Operation in SQL**

Use the CREATE TABLE AS command when you want to store the result of a query as a base table.

The structure of the table is defined by the structure of the result. The data types are determined by the data types of the returned fields.

This command combines the CREATE and the INSERT command.

#### **SYNTAX:**

CREATE TABLE table name AS select statement

#### **EXAMPLE: CREATE TABLE AS**

Create a copy of the Student table.

CREATE TABLE student\_copy AS
SELECT \* FROM students;

| ID | Name  | School        | Credits_Earne<br>d | Credits_Re | Yr_o_grad |
|----|-------|---------------|--------------------|------------|-----------|
| 1  | Smith | Khoury        | 32                 | 120        | 2019      |
| 2  | Shah  | D'Amore McKim | 64                 | 128        | 2019      |
| 3  | Li    | Khoury        | 50                 | 120        | 2020      |

| ID | Name  | School        | Credits_Earne<br>d | Credits_Re | Yr_o_grad |
|----|-------|---------------|--------------------|------------|-----------|
| 1  | Smith | Khoury        | 32                 | 120        | 2019      |
| 2  | Shah  | D'Amore McKim | 64                 | 128        | 2019      |
| 3  | Li    | Khoury        | 50                 | 120        | 2020      |

### Remove a table

 Use the command **DROP** to remove the table from a database. All data as well as the definition of the table is removed from the database.

DROP TABLE Student;

### Alter the structure of a table

The alter command allows a user to change the structure of the table such as add/change/delete fields, add / change/ remove constraints.

```
SYNTAX:
```

```
[db name.]table name
ALTER TABLE
              column name data type
ADD
 [column attributes]
DROP COLUMN
              column name
              column name data type
MODIFY
 [column attributes]
RENAME COLUMN old column name TO
 new column name
```

#### **EXAMPLE: ALTER a table**

Add a field to a table ALTER TABLE student ADD column email VARCHAR(20);

Drop a field from a table ALTER TABLE student DROP column credits\_earned;

Change a field constraint ALTER TABLE student MODIFY column email VARCHAR(20) DEFAULT "UNKNOWN";

If a modification to a table would lose tuples the ALTER command will fail.

# **Summary**

### In this module you learned:

- CREATE TABLE AS
- DROP
- ALTER command