

## Module 4: MySQL Manage Table

### Alter command:

#### 1) to add column to table:

- ☐ **To add column:**



- ☐ ALTER
- ☐ ADD

- ☐ **To add multiple columns:**

- ☐ ALTER TABLE table\_name
- ☐ ADD [COLUMN] column\_name1 data\_type,
- ☐ ADD [COLUMN] column\_name2 data\_type ;

- ☐ **To add column to first position:**

- ☐ ALTER TABLE table\_name
- ☐ ADD [COLUMN] column\_name data\_type **FIRST;**

- ☐ **To add column after particular column:**

- ☐ ALTER TABLE table\_name
  - ☐ ADD [COLUMN] column\_name data\_type **AFTER existing\_column\_name;**
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#### 2) to change datatype:

- ☐ **To change a columns datatype:**

- ☐ ALTER TABLE table\_name



- ☐ MODIFY

- ☐ **To change multiple columns datatype:**

- ☐ ALTER TABLE table\_name
- ☐ MODIFY existing\_col\_name\_1 new\_datatype,
- ☐ MODIFY existing\_col\_name\_2 new\_datatype;

- ☐ **Note:** MySQL wont allow us to change a column's datatype if that change would cause the data to be lost.
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#### 3) to change column attributes:

- ☐ **To change column attributes:**

- ☐ ALTER TABLE table\_name
- ☐ MODIFY existing\_col\_name datatype column\_attributes;

- ☐ **To change multiple column attributes:**

- ☐ ALTER TABLE table\_name
- ☐ MODIFY existing\_col\_name\_1 datatype column\_attributes;
- ☐ MODIFY existing\_col\_name\_2 datatype column\_attributes;

- ☐ **Note:** MySQL wont allow us to change a column if that change would cause the data to be lost.

**4) to rename a column:**

☐ **To rename a column:**

☐ ALTER TABLE table\_name

————→ ☐ CHANGE

☐ **To rename multiple columns:**

☐ ALTER TABLE table\_name

☐ CHANGE old\_col\_name\_1 new\_col\_name\_1 datatype,

☐ CHANGE old\_col\_name\_2 new\_col\_name\_2 datatype;

**5) to drop a column:**

☐ **To drop a column:**

☐ ALTER TABLE table\_name

☐ DROP existing\_col\_name;

☐ **To drop multiple columns:**

☐ ALTER TABLE table\_name

☐ DROP existing\_col\_name\_1,

☐ DROP existing\_col\_name\_2;

☐ **Note:** a column cannot be dropped if it's the only column in the table.

**ALTER – MCQs**

**Q1) consider a table tab1 with one column a.**

**Which of the following command will add a column b to the above table.**

**Options:**

A. alter tab1 add column b varchar(10);

B. alter table tab1 add column b varchar(10);

C. alter table tab1 add b column varchar(10);

D. alter tab1 add b varchar(10);

**Solution:**

**Q2) consider a table tab1 with two columns a- int and b-varchar.**

**What will the result of following command?**

**alter table tab1 add c int first,**

**add d char(10) first,**

**add e tinyint(2) after a;**

**Options:**

A. table will have 5 columns: c, d, e, a and b.

B. table will have 4 columns: d , a, e and b

C. table will have 5 columns: d, c, a, e and b

D. error.

**Solution:**

**Q3) consider a table tab2 with one column a – int.**

**Which of the following command can change the datatype of column a to varchar(10).**

**Options:**

- A. modify table tab2 modify a varchar(10);
- B. alter table tab2 modify a varchar(10);
- C. change table tab2 modify a varchar(10);
- D. alter table tab2 modify a int a varchar(10);

**Solution:**

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**Q4) consider a table tab2 with one column a – varchar(10);**

**Which of the following command can change the datatype of column a to int**

**Options:**

- A. alter table tab2 change a varchar(10) a int;
- B. alter table tab2 modify a a int;
- C. change table tab2 alter a a int;
- D. alter table tab2 change a a int;

**Solution:**

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**Q5) consider a table with two columns a – int and b – int.**

**Which of the following command can be used to drop column a from the table?**

**Options:**

- A. modify table tab2 drop a;
- B. alter table tab2 delete a;
- C. alter table tab2 drop a;
- D. alter tab2 drop a;

**Solution:**

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**Q6) consider a table with one column b – int.**

**Which of the following command can be used to drop column a from the table?**

**Options:**

- A. it cannot be dropped.
- B. alter table tab2 drop a;
- C. alter table tab2 delete a;
- D. alter tab2 drop a;

**Solution:**

## Truncate, Rename and Drop Command:

### Truncate a Table:

- ☐ TRUNCATE TABLE statement can be used to delete all the data from a table without deleting the column definitions for the table.
- ☐ TRUNCATE TABLE cannot be used to remove specific records.
- ☐ The syntax is:

→ ☐ **TRUNCATE**

- ☐ Note: TABLE keyword in TRUNCATE statement is optional.
- ☐ Note:
  - ☐ If table contains an AUTO\_INCREMENT column, then TRUNCATE TABLE would reset the sequence.
  - ☐ If a foreign key constraint in another table refers to this table then the table cannot be truncated.

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### Rename a Table:

- ☐ RENAME TABLE statement is used for renaming an existing table.
- ☐ It is useful if we want to change the name of a table without modifying its column definitions or the data that's stored in the table.
- ☐ The syntax is:

→ ☐ **RENAME**

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### Drop a Table:

- ☐ DROP TABLE statement is used to delete all the data from the table along with the definition of the table, including the constraints, triggers, views and indexes for the table.
- ☐ If a foreign key constraint in another table refers to this table then the table cannot be dropped.
- ☐ The syntax is :

→ ☐ **DROP**

### T,R and D- MCQs

**Q1) consider a table tab2 with one column b – int.**

**Which of the following command can be used to rename the table to tab3.**

**Options:**

- A. it cannot be renamed.
- B. rename table tab2 to tab3;
- C. rename table tab2 to table tab3;
- D. change table tab2 to tab3;

**Solution:**

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**Q2) consider a database cric\_db with two tables.**

**Which of the following command can be used to rename the database to cricket\_info.**

**Options:**

- A. it cannot be renamed.
- B. rename database cric\_db to cricket\_info;
- C. rename cric\_db to cricket\_info;
- D. change database cric\_db to cricket\_info;

**Solution:**

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**Q3) consider a table tab4 with one column b – int.**

**Which of the following command can be used to truncate the table.**

**Options:**

- A. it cannot be truncated.
- B. truncate table tab4;
- C. drop table tab4;
- D. truncate tab4 table;

**Solution:**

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**Q4) consider a table tab4 with one column b – int.**

**Which of the following command can be used to drop the table.**

**Options:**

- A. drop table tab4;
- B. drop tab4;
- C. table cannot be dropped as it has only one column.
- D. delete table tab4;

**Solution:**