University of Central Florida
CGS 2545
Database Concepts

DEPARTMENT OF ELECTRICAL ENGINEERING & COMPUTER SCIENCE
COMPUTER SCIENCE DIVISION

Clone Tables

- There may be a situation when you need an exact copy of a table and the CREATE TABLE ... or the SELECT... commands does not suit your purposes because the copy must include the same indexes, default values and so forth.
- If you are using MySQL RDBMS, you can handle this situation by adhering to the steps given next

Clone Tables

- Use SHOW CREATE TABLE command to get a CREATE TABLE statement that specifies the source table's structure, indexes and all.
- Modify the statement to change the table name to that of the clone table and execute the statement.
- This way you will have an exact clone table.
- Optionally, if you need the table contents copied as well, issue an INSERT INTO or a SELECT statement too.

Clone Tables

- Example
  - Try out the following example to create a clone table for **TUTORIALS_TBL** whose structure is as follows in the next three steps

Clone Tables

- Example
  - **Step 1 -** Get the complete structure about the table.

```
SQL> SHOW CREATE TABLE TUTORIALS_TBL \G;
*************************** 1. row ***************************
       Table: TUTORIALS_TBL
Create Table: CREATE TABLE 'TUTORIALS_TBL' (
  'tutorial_id' int(11) NOT NULL auto_increment,
  'tutorial_title' varchar(100) NOT NULL default '',
  'tutorial_author' varchar(40) NOT NULL default '',
  'submission_date' date default NULL,
  PRIMARY KEY  ('tutorial_id'),
  UNIQUE KEY 'AUTHOR_INDEX' ('tutorial_author')
) TYPE = MyISAM
1 row in set (0.00 sec)
```

Clone Tables

- Example
  - **Step 2** – Rename this table and create another table.

```
SQL> CREATE TABLE `CLONE_TBL` (
  -> 'tutorial_id' int(11) NOT NULL auto_increment,
  -> 'tutorial_title' varchar(100) NOT NULL default '',
  -> 'tutorial_author' varchar(40) NOT NULL default '',
  -> 'submission_date' date default NULL,
  -> PRIMARY KEY  (`tutorial_id'),
  -> UNIQUE KEY 'AUTHOR_INDEX' ('tutorial_author')
-> ) TYPE = MyISAM;
Query OK, 0 rows affected (1.80 sec)
```

Clone Tables

- Example
  - **Step 3** – After executing step 2, you will clone a table in your database. If you want to copy data from an old table, then you can do it by using the INSERT INTO... SELECT statement.

```
SQL> INSERT INTO CLONE_TBL (tutorial_id,
    ->                      tutorial_title,
    ->                      tutorial_author,
    ->                      submission_date)
    -> SELECT tutorial_id,tutorial_title,
    ->        tutorial_author,submission_date,
    -> FROM TUTORIALS_TBL;
Query OK, 3 rows affected (0.07 sec)
Records: 3  Duplicates: 0  Warnings: 0
```