

## STUDENT OBJECTIVES

- Upon completion of this video, you should be able to:
  - Insert rows of data into a table
  - Update a row(s) of data in a table or some attributes within rows in a table
  - Delete a row of data from a table
  - Show the attribute names and types for an existing table

#### INSERTING Data Into Tables:

INSERT INTO TableName (Attr1Name, Attr2Name, Attr3Name) VALUES (value1, value2, value3);

OR

#### INSERT INTO TableName VALUES (value1, value2, value3);

NOTE: if you use this method you must put a value for EVERY field and in the correct order that the fields are in the table

#### **Example:**

INSERT INTO owner (firstname, lastname, ownerid) VALUES (''Laura'',''Reid'',1);

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## **UPDATING Existing Data:**

**UPDATE TableName SET AttrName = 'Value' WHERE Condition;** 

#### **Example:**

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UPDATE owner SET firstname="Elaine" WHERE firstname
="Laura";

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### EXAMPLES USING QUOTES:

```
mysql> SELECT 'hello', '"hello"', '""hello""', 'hel''lo', '\'hello';
| hello | "hello" | ""hello"" | hel'lo | 'hello |
+-----
mysql> SELECT "hello", "'hello'", "''hello'", "hel""lo", "\"hello";
| hello | 'hello' | ''hello'' | hel"lo | "hello |
mysql> SELECT 'This\nIs\nFour\nLines';
+----+
| This
Ιs
Four
Lines |
mysgl> SELECT 'disappearing\ backslash';
| disappearing backslash
```

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## **DELETING Tuples From Tables:**

**DELETE FROM TableName WHERE Condition** 

**Example:** 

DELETE FROM owner WHERE lastname ='Reid';

# Getting information back (if you can't remember table names or column names)

SHOW DATABASES; SHOW TABLES; SHOW COLUMNS IN tablename;

e.g. SHOW COLUMNS IN employee;

```
mysql> show databases;
 Database
 information schema
 laurascompany
 lreid2tadb
 mysql
 performance schema
 testinclass
 rows in set (0.01 sec)
ysql> show tables;
 Tables in laurascompany
 DEPARTMENT
 EMPLOYEE
 PROJECT
 WORKS ON
 rows in set (0.00 sec)
mysql> show columns in EMPLOYEE;
                          | Null | Key | Default | Extra
            | varchar(9)
                                       NULL
 lastname | varchar(20)
                         YES
                                        NULL
 firstname | varchar(20) | YES
                                       NULL
            | varchar(1) | YES
                           YES
                                       NULL
 deptno
             char(3)
                                        NULL
             varchar(10) | YES
 rows in set (0.00 sec)
```