## WEEK 5

SQL – INSERTING, UPDATING AND DELETING ROWS OF DATA

### 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: In this way, the order is given

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

OR mouth), you'll receive an error.

#### **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);

int, no need ....

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#### **UPDATING Existing Data:**

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

#### **Example:**

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

to varify the updace, we could use:

SELECT \* FROM owner -

10/10/2023

3

CS319

#### **EXAMPLES USING QUOTES:**

```
mysgl> 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
mysgl> SELECT 'disappearing\ backslash';
| disappearing backslash
```

CS3319 10/10/2023 5

#### **DELETING Tuples From Tables:**

be coreful with this one.

7

#### **DELETE FROM TableName WHERE Condition**

**Example:** 

DELETE FROM owner WHERE lastname ='Reid';

Bonz of the item is linked so other field as foreign key, system would prevent this action and throws an exception

if there's no condition, everything is deleted.

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# 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;

```
mvsgl> show databases;
 Database
  information schema
 laurascompany
 lreid2tadb
 mysql
 performance schema
 testinclass
 rows in set (0.01 sec)
nysgl> show tables;
  Tables in laurascompany
 DEPARTMENT
  EMPLOYEE
 PROJECT
 WORKS ON
 rows in set (0.00 sec)
mysgl> show columns in EMPLOYEE;
                          | Null | Key | Default | Extra
            | varchar(9) | NO
  lastname | varchar(20) | YES
                                        NULL
 firstname | varchar(20) | YES
                                        NULL
             varchar(1) | YES
                                        NULL
                            YES
                                        NULL
 deptno
             char(3)
                                        NULL
             varchar(10) | YES
  rows in set (0.00 sec)
```

BB.g=(C.g

5 7 g d 2

5 9 8 con 55

1 4 6 gone 55

[\* 4 6 pig 66.]

AA.d=(C.d.

4121

a b c d g 2

1 } 4 con 8 55

L 2 5 con 8 45.



