

# **University of Central Florida**

## **CGS 2545**

### **Database Concepts**

DEPARTMENT OF ELECTRICAL ENGINEERING & COMPUTER SCIENCE  
**COMPUTER SCIENCE DIVISION**

# NULL Values

- The SQL **NULL** is the term used to represent a missing value.
- A NULL value in a table is a value in a field that appears to be blank.
- A field with a NULL value is a field with no value.
- It is very important to understand that a NULL value is different than a zero value or a field that contains spaces.

# NULL Values

- Syntax
  - The basic syntax of **NULL** while creating a table.

```
SQL> CREATE TABLE CUSTOMERS(  
    ID      INT              NOT NULL,  
    NAME VARCHAR (20)        NOT NULL,  
    AGE     INT              NOT NULL,  
    ADDRESS CHAR (25) ,  
    SALARY  DECIMAL (18, 2),  
    PRIMARY KEY (ID)  
);
```

# NULL Values

- Syntax
  - **NOT NULL** signifies that column should always accept an explicit value of the given data type.
  - There are two columns where we did not use NOT NULL, which means these columns could be NULL.
  - A field with a NULL value is the one that has been left blank during the record creation.

# NULL Values

- Example
  - The NULL value can cause problems when selecting data.
  - However, because when comparing an unknown value to any other value, the result is always unknown and not included in the results.
  - You must use the **IS NULL** or **IS NOT NULL** operators to check for a NULL value.

# NULL Values

- Example
  - Consider the following CUSTOMERS table having the records as shown below.

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	
7	Muffy	24	Indore	

# NULL Values

- Example
  - Following is the usage of the **IS NOT NULL** operator.

```
SQL> SELECT ID, NAME, AGE, ADDRESS, SALARY  
FROM CUSTOMERS  
WHERE SALARY IS NOT NULL;
```

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00

# NULL Values

- Example
  - Following is the usage of the **IS NULL** operator.

```
SQL> SELECT ID, NAME, AGE, ADDRESS, SALARY  
FROM CUSTOMERS  
WHERE SALARY IS NULL;
```

	ID		NAME		AGE		ADDRESS		SALARY	
	6		Komal		22		MP			
	7		Muffy		24		Indore			