

A modern conference room with large windows and a long table. The room is empty, with several chairs arranged around the table. The text "NOT NULL Constraint" is overlaid in the center.

NOT NULL Constraint

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	primary key	unique key
NULL VALUES	no	yes

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the “not null” restriction is applied through the NOT NULL Constraint

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- when you insert values in the table, you cannot leave the respective field *empty*

NOT NULL Constraint

	primary key	unique key
NULL VALUES	no	yes

the “not null” restriction is applied through the NOT NULL Constraint

- when you insert values in the table, you cannot leave the respective field *empty*
- if you leave it *empty*, MySQL will signal an error

ERROR

NOT NULL Constraint

Companies		
company_id	headquarters_phone_number	company_name
1	+1 (202) 555-0196	Company A
2	+1 (202) 555-0152	Company B
3	+1 (229) 853-9913	Company C
4	+1 (618) 369-7392	Company D

NOT NULL Constraint

Companies		
company_id	headquarters_phone_number	company_name
1	+1 (202) 555-0196	Company A
2	+1 (202) 555-0152	Company B
3	+1 (229) 853-9913	Company C
4	+1 (618) 369-7392	Company D

NOT NULL

NOT NULL Constraint



SQL

```
CREATE TABLE companies
(
    company_id INT AUTO_INCREMENT,
    headquarters_phone_number VARCHAR(255),
    company_name VARCHAR(255),
    PRIMARY KEY (company_id)
);
```


NOT NULL Constraint



SQL

```
CREATE TABLE companies
(
    company_id INT AUTO_INCREMENT,
    headquarters_phone_number VARCHAR(255),
    company_name VARCHAR(255) NOT NULL,
    PRIMARY KEY (company_id)
);
```

NOT NULL Constraint

- Don't confuse a NULL value with the value of 0 or with a "NONE" response!

Think of a null value as a missing value.

0	NONE	NULL
assigned by the <u>user</u>		assigned by the <u>computer</u>

NOT NULL Constraint

Customers					
customer_id	first_name	last_name	gender	email_address	number_of_complaints
1	John	McKinley	M	john.mackinley@365careers.com	0
2	Elizabeth	McFarlane	F	e.mcfarlane@365careers.com	2
3	Kevin	Lawrence	M	kevin.lawrence@365careers.com	1
4	Catherine	Winnfield	F	c.winnfield@365careers.com	0

~~NULL~~
the value
of 0,
NOT NULL

NOT NULL Constraint

Customers					
customer_id	first_name	last_name	gender	email_address	number_of_complaints
1	John	McKinley	M	john.mackinley@365careers.com	
2	Elizabeth	McFarlane	F	e.mcfarlane@365careers.com	2
3	Kevin	Lawrence	M	kevin.lawrence@365careers.com	1
4	Catherine	Winnfield	F	c.winnfield@365careers.com	0

NULL

NOT NULL Constraint

Customers						
customer_id	first_name	last_name	gender	email_address	number_of_complaints	feedback
1	John	McKinley	M	john.mackinley@365careers.com	0	<i>I think...</i>
2	Elizabeth	McFarlane	F	e.mcfarlane@365careers.com	2	<i>Great service!</i>
3	Kevin	Lawrence	M	kevin.lawrence@365careers.com	1	<i>Great service!</i>
4	Catherine	Winnfield	F	c.winnfield@365careers.com	0	NONE

~~NULL~~

NOT NULL Constraint

Customers						
customer_id	first_name	last_name	gender	email_address	number_of_complaints	feedback
1	John	McKinley	M	john.mackinley@365careers.com	0	<i>I think...</i>
2	Elizabeth	McFarlane	F	e.mcfarlane@365careers.com	2	<i>Great service!</i>
3	Kevin	Lawrence	M	kevin.lawrence@365careers.com	1	<i>Great service!</i>
4	Catherine	Winnfield	F	c.winnfield@365careers.com	0	

NULL

Next:

Coding Techniques and Best Practices

Data Manipulation