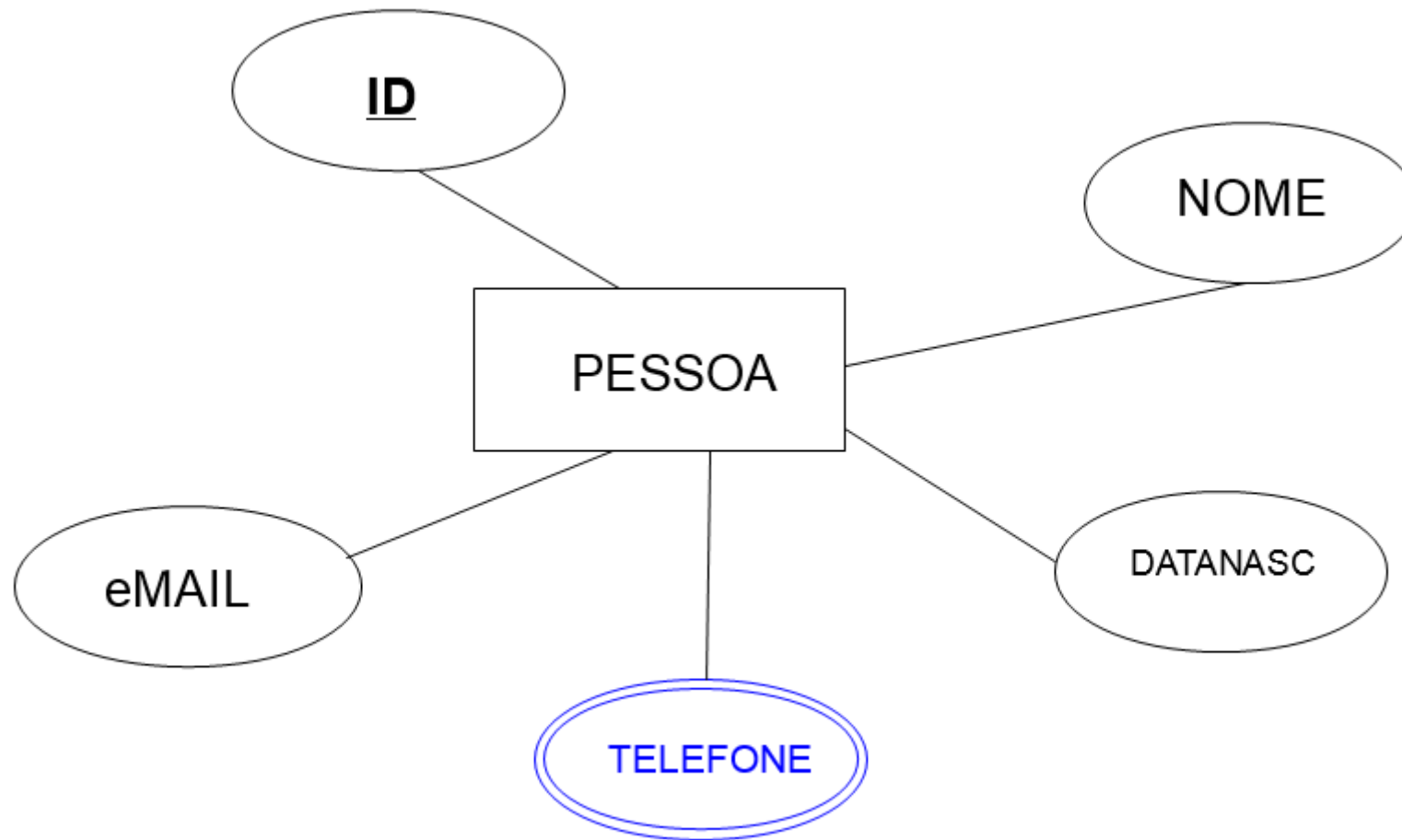
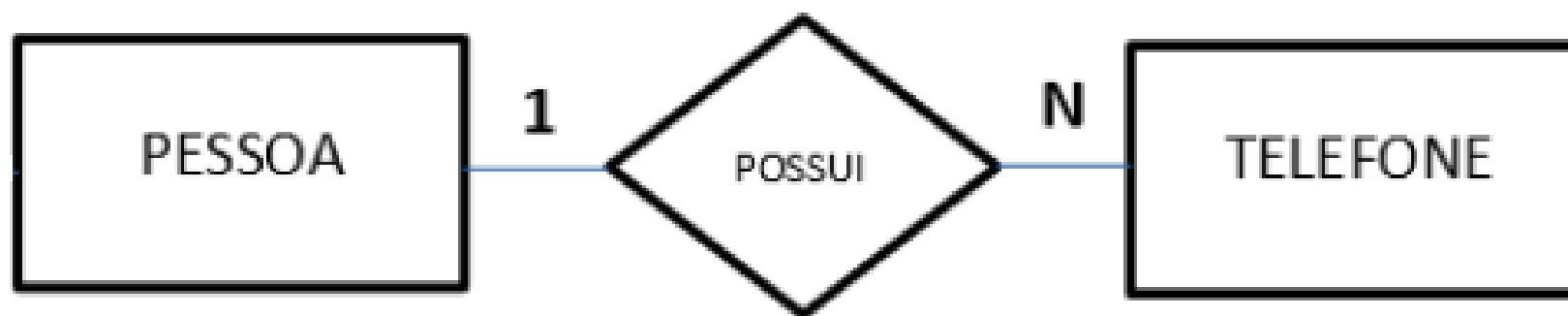
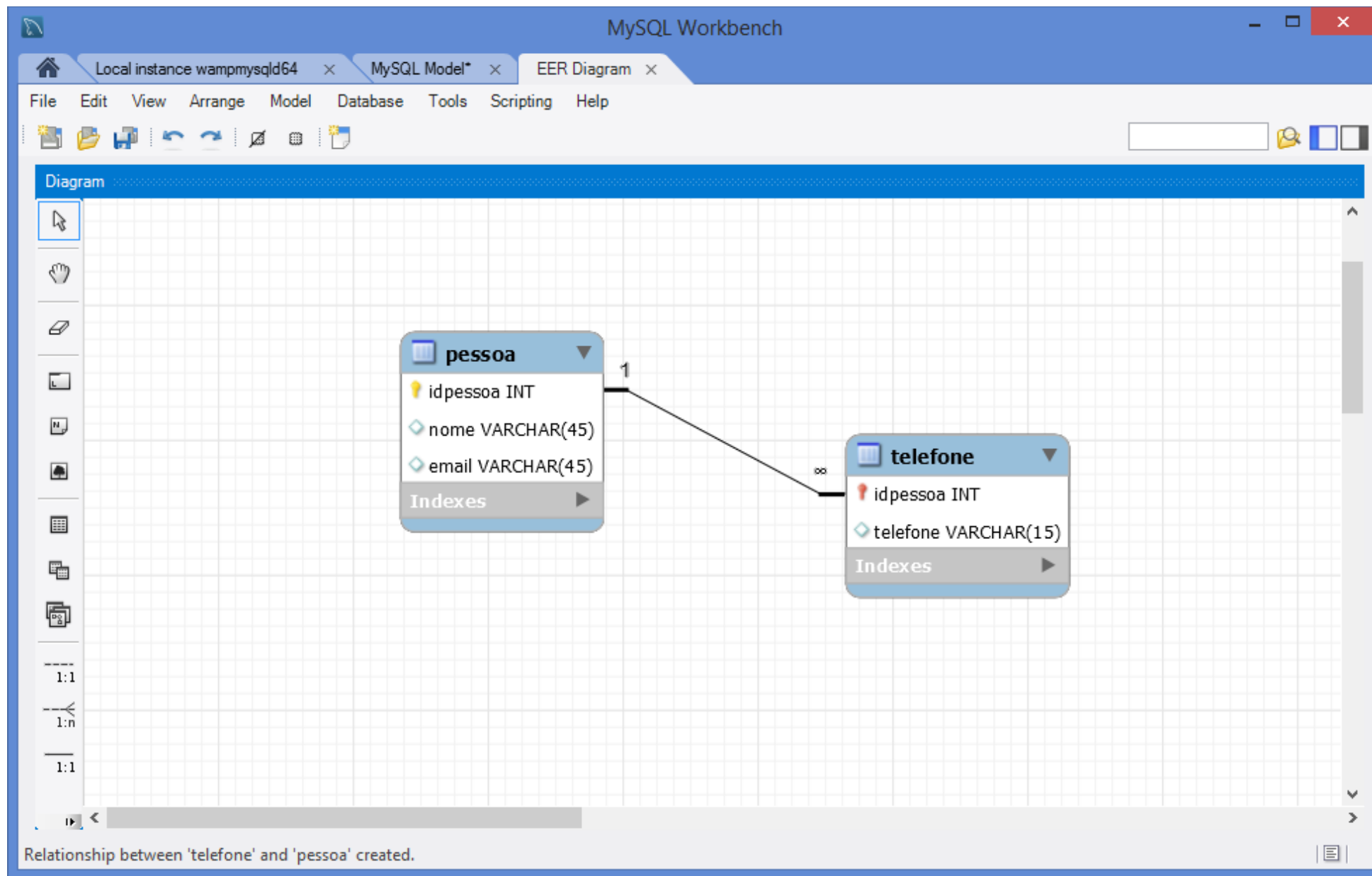


## Cardinalidade 1:N








### Atributo Multivalorado


















-  Versão ▶
-  Opções do Serviço 'wampmysqld64' ▶
-  MySQL settings ▶
-  Console do MySQL
-  my.ini
-  Log do MySQL
-  MySQL documentation

**WAMP SERVER 3.1.0**

Made in France by Otomatic

	Localhost	
	phpMyAdmin	4.7.4
	Seus VirtualHosts	▶
	Abrir Diretório www	
	Apache	2.4.27 ▶
	PHP	7.1.9 ▶
	MySQL	5.7.19 ▶
	MariaDB	10.2.8 ▶

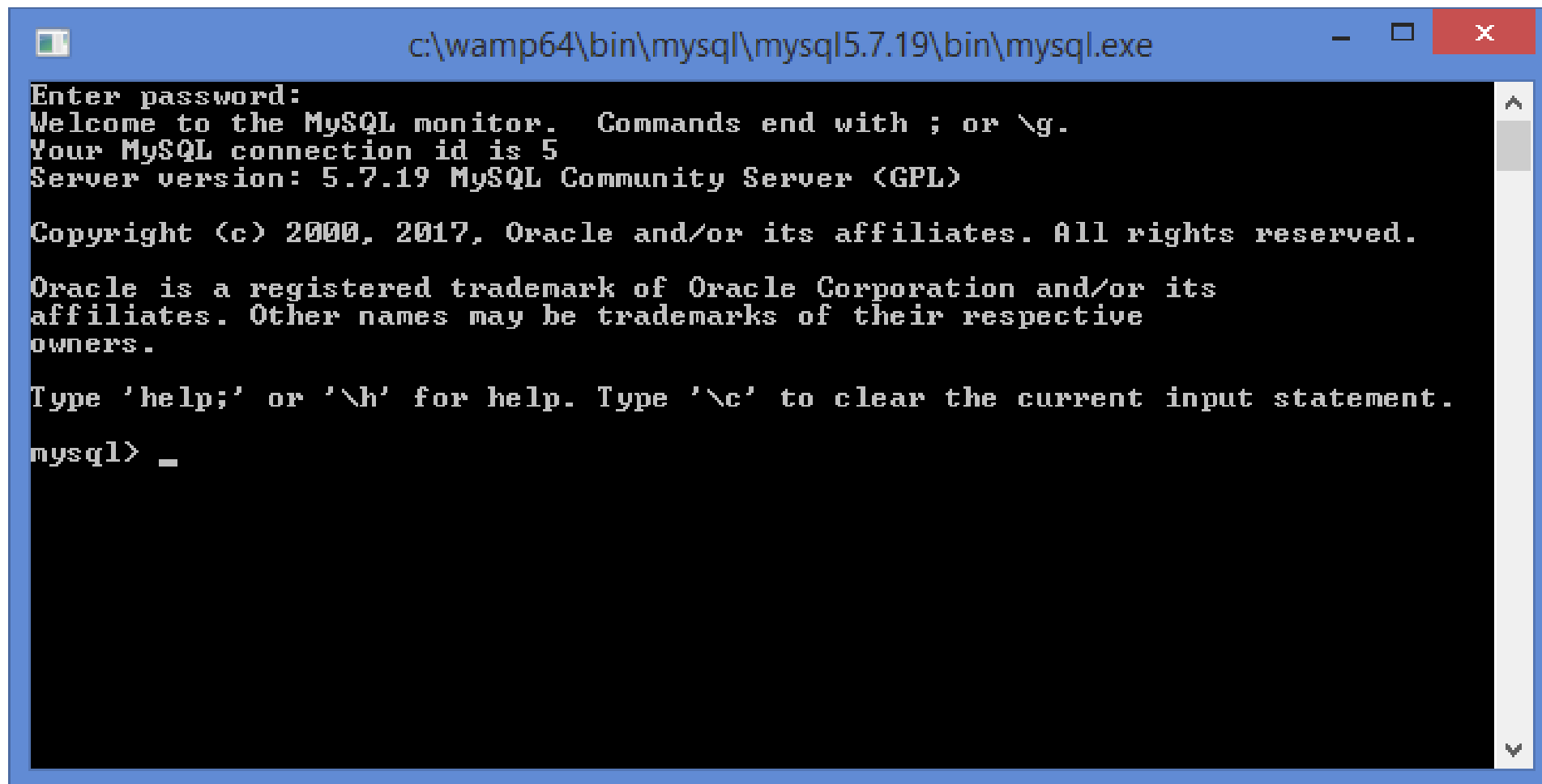
3.1.0 - 64bit - Serviços

Iniciar todos os Serviços

Parar todos os Serviços

Reiniciar todos os Serviços





```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe

Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 5
Server version: 5.7.19 MySQL Community Server (GPL)

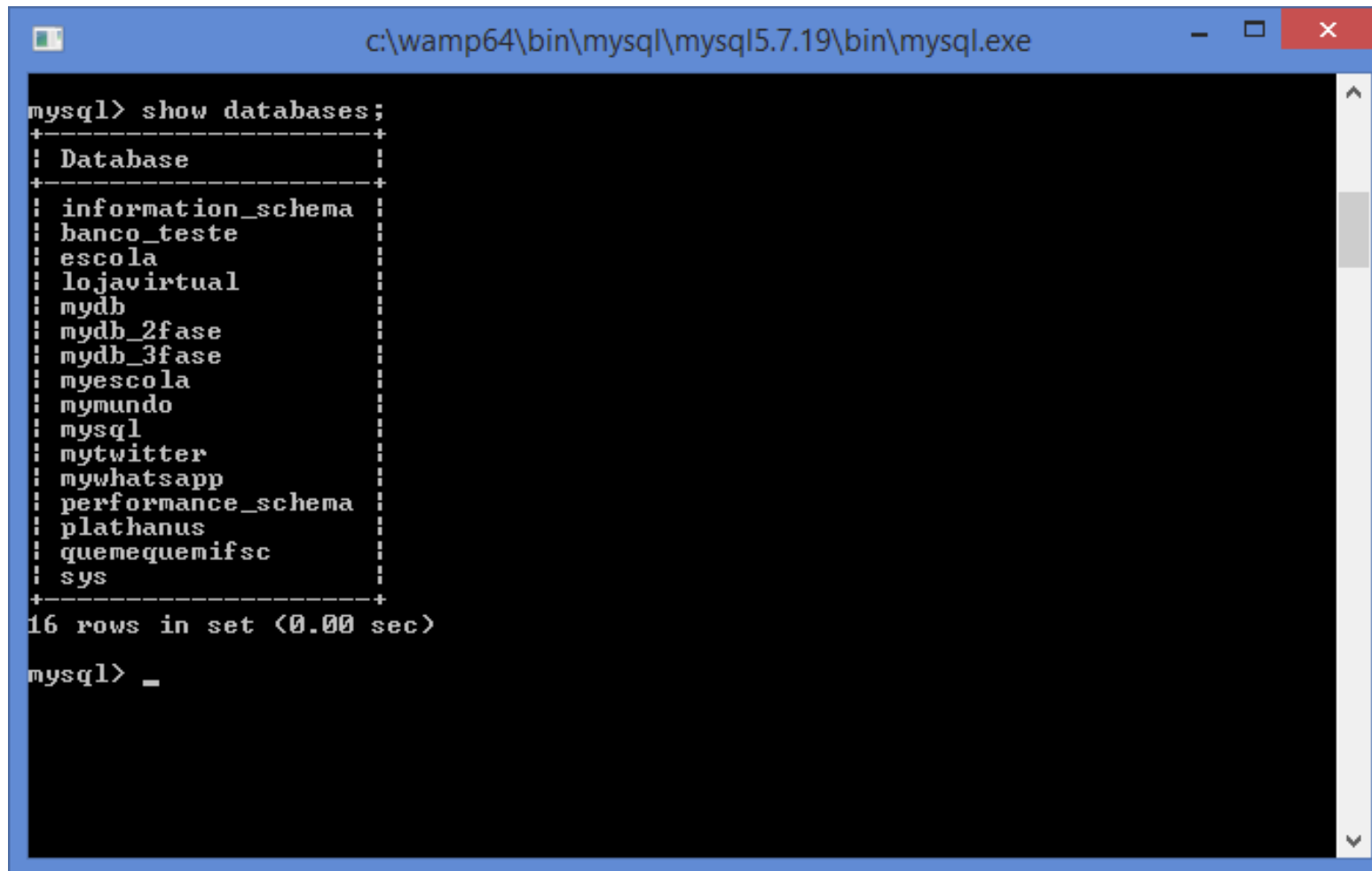
Copyright (c) 2000, 2017, Oracle and/or its affiliates. All rights reserved.

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> _
```

# mysql> show databases;



The screenshot shows a Windows command prompt window titled "c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe". The prompt is "mysql> show databases;". The output is a table with one column, "Database", listing 16 databases. The databases are: information\_schema, banco\_teste, escola, lojavirtual, mydb, mydb\_2fase, mydb\_3fase, myescola, mymundo, mysql, mytwitter, mywhatsapp, performance\_schema, plathanus, quemequemifsc, and sys. Below the table, it says "16 rows in set (0.00 sec)". The prompt is now "mysql> \_".

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| banco_teste |
| escola |
| lojavirtual |
| mydb |
| mydb_2fase |
| mydb_3fase |
| myescola |
| mymundo |
| mysql |
| mytwitter |
| mywhatsapp |
| performance_schema |
| plathanus |
| quemequemifsc |
| sys |
+-----+
16 rows in set (0.00 sec)

mysql> _
```

```
mysql> use mydb;
```

```
mysql> show tables;
```

```
mysql> describe pessoa;
```

peessoa - Table

Table Name:  Schema: **mydb**

Filter Rows:  Edit: Export/Import: Wrap Cell Content: Apply changes:

	idpeessoa	nome	email
▶	1	nome1	email1
	2	nome2	email2
	3	nome3	email3
	4	nome4	email4
	5	nome5	email5
*	NULL	NULL	NULL

telefone - Table

Table Name:  Schema: **mydb**

Filter Rows:  Edit: Export/Import: Wrap Cell Content: Apply changes:

	idtelefone	telefone
▶	1	1111-1111
	2	2222-2222
	2	2222-2223
	4	4444-4441
	4	4444-4442
	4	4444-4443
	4	4444-4444
*	NULL	NULL



# The SQL INSERT INTO Statement

The INSERT INTO statement is used to insert new records in a table.

## INSERT INTO Syntax

It is possible to write the INSERT INTO statement in two ways.

The first way specifies both the column names and the values to be inserted:

```
INSERT INTO table_name (column1, column2, column3, ...)  
VALUES (value1, value2, value3, ...);
```

If you are adding values for all the columns of the table, you do not need to specify the column names in the SQL query. However, make sure the order of the values is in the same order as the columns in the table. The INSERT INTO syntax would be as follows:

```
INSERT INTO table_name  
VALUES (value1, value2, value3, ...);
```

# The SQL UPDATE Statement

The UPDATE statement is used to modify the existing records in a table.

## UPDATE Syntax

```
UPDATE table_name  
SET column1 = value1, column2 = value2, ...  
WHERE condition;
```

**Note:** Be careful when updating records in a table! Notice the WHERE clause in the UPDATE statement. The WHERE clause specifies which record(s) that should be updated. If you omit the WHERE clause, all records in the table will be updated!

# The SQL DELETE Statement

The DELETE statement is used to delete existing records in a table.

## DELETE Syntax

```
DELETE FROM table_name WHERE condition;
```

**Note:** Be careful when deleting records in a table! Notice the WHERE clause in the DELETE statement. The WHERE clause specifies which record(s) should be deleted. If you omit the WHERE clause, all records in the table will be deleted!

# The SQL WHERE Clause

The WHERE clause is used to filter records.

The WHERE clause is used to extract only those records that fulfill a specified condition.

## WHERE Syntax

```
SELECT column1, column2, ...  
FROM table_name  
WHERE condition;
```

**Note:** The WHERE clause is not only used in SELECT statement, it is also used in UPDATE, DELETE statement, etc.!

# CASOS DE USO

1. Listar todos os dados da tabela pessoa
2. Listar nome e e-mail em ordem descendente de e-mail
3. Listar nome e telefone das pessoas que tem telefone
4. Listar nome e telefone de todas as pessoas
5. Listar nome das pessoas que não tem telefone
6. Alterar o nome das pessoas para os colegas de classe
7. Listar nome das pessoas que não tem telefone em ordem descendente (nome)
8. Listar nome e email das pessoas que não tem telefone
9. Acrescentar o prefixo (48) e o algarismo 9 aos telefones
10. Deletar as pessoas que não tem telefone