


# String Operation

# OVERVIEW

- 字符串“拼接”
- 字符串“剪辑”
- 字符串反转
- 字符串长度
- 字母的大小写



```
mysql> select first_name, last_name from employee;
```

+-----+-----+	
first_name	last_name
+-----+-----+	
Robin	Jackman
Taylor	Edward
Vivian	Dickens
Harry	Clifford
Eliza	Clifford
Nancy	Newman
Melinda	Clifford
Jack	Chan
Harley	Gilbert
+-----+-----+	

```
9 rows in set (0.00 sec)
```

Full name?

Full name = first\_name last name

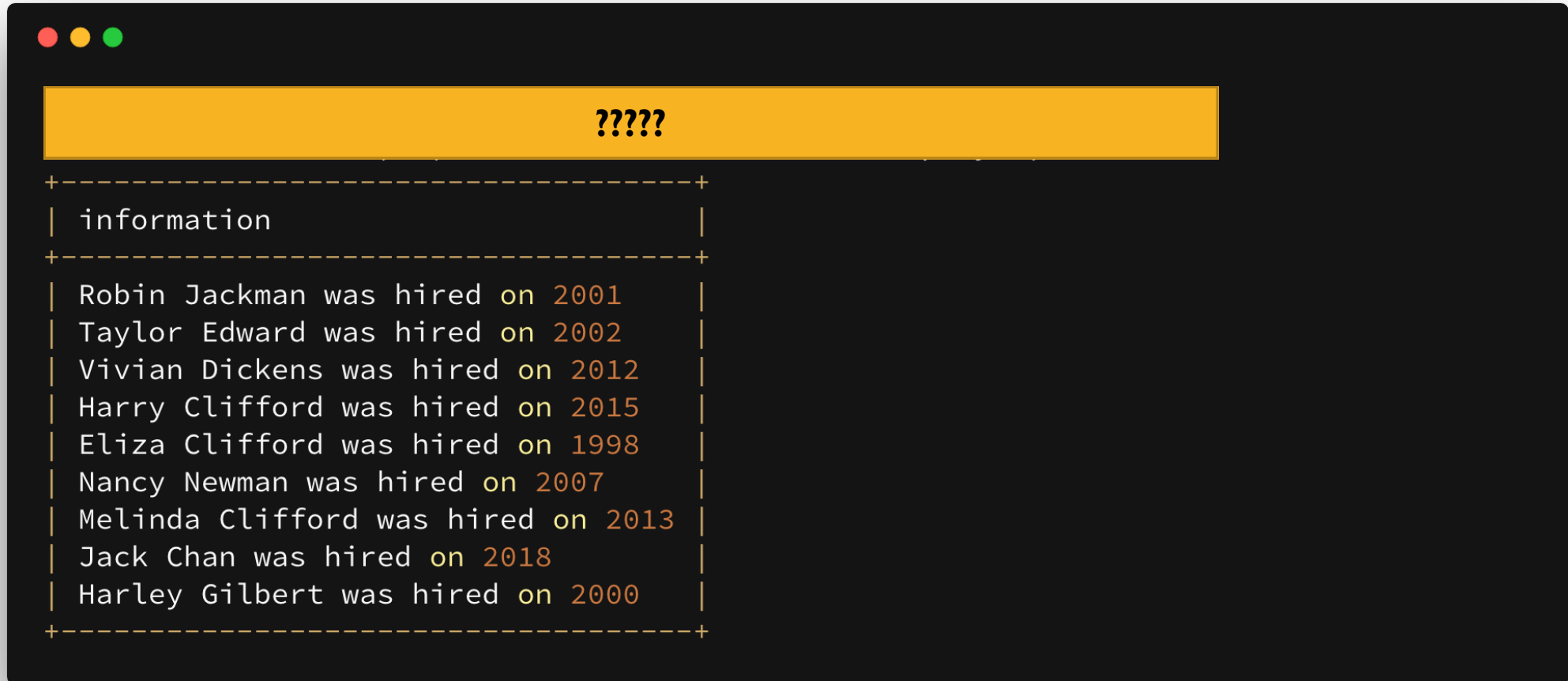
# CONCAT

- The MySQL CONCAT function takes one or more string arguments and concatenates them into a single string. The CONCAT function requires a minimum of one parameter otherwise it raises an error
- `CONCAT("A","B") = "AB"`

# SUBSTRING

- `SELECT SUBSTRING("Hello World", 1, 4)`
- `SELECT SUBSTRING("Hello World", 7)`
- `SELECT SUBSTRING("Hello World", -3)`

# SUBSTRING



A terminal window with a dark background and a yellow title bar. The title bar contains the text "?????". The terminal displays a table of employee hire data. The table has a header row with the text "information" and a body with 9 rows of employee names and hire years. The table is enclosed in a dashed border.

information
Robin Jackman was hired on 2001
Taylor Edward was hired on 2002
Vivian Dickens was hired on 2012
Harry Clifford was hired on 2015
Eliza Clifford was hired on 1998
Nancy Newman was hired on 2007
Melinda Clifford was hired on 2013
Jack Chan was hired on 2018
Harley Gilbert was hired on 2000

# REPLACE, REVERSE AND CHAR\_LENGTH

- `SELECT REPLACE("Hello World", "World", "MySQL");`
- `SELECT REVERSE("Hello World");`
- `SELECT CHAR_LENGTH("Hello World");`

# UPPER AND LOWER

- `SELECT UPPER("Hello MySQL")`
- `SELECT LOWER("Hello MySQL")`





```
mysql> SELECT REPLACE(CONCAT("H"," ", "E"," ", "L"," ", "L"," ", "0")," ", "-") AS Title;
```

?????

```
mysql>
```

?????

mysql>

director_name->	imdb_score
James Cameron->	7.9
Gore Verbinski->	7.1
Sam Mendes->	6.8
Christopher Nolan->	8.5
Andrew Stanton->	6.6
Sam Raimi->	6.2
Nathan Greno->	7.8
Joss Whedon->	7.5
David Yates->	7.5
Zack Snyder->	6.9
Bryan Singer->	6.1
Marc Forster->	6.7
Gore Verbinski->	7.3

mysql>

?????

country	yrtnuoc
USA	ASU
USA	ASU
UK	KU
USA	ASU
USA	ASU
USA	ASU
USA	ASU
USA	ASU
UK	KU
USA	ASU
USA	ASU
UK	KU
USA	ASU
USA	ASU
USA	ASU
USA	ASU
USA	ASU
USA	ASU
USA	ASU
New Zealand	dnalaeZ weN

mysql>

?????

title
Avatar was released in 2009
Pirates of the Caribbean: At World's End was released in 2007
Spectre was released in 2015
The Dark Knight Rises was released in 2012
John Carter was released in 2012
Spider-Man 3 was released in 2007
Tangled was released in 2010
Avengers: Age of Ultron was released in 2015
Harry Potter and the Half-Blood Prince was released in 2009
Batman v Superman: Dawn of Justice was released in 2016
Superman Returns was released in 2006
Quantum of Solace was released in 2008
Pirates of the Caribbean: Dead Man's Chest was released in 2006
The Lone Ranger was released in 2013
Man of Steel was released in 2013
The Chronicles of Narnia: Prince Caspian was released in 2008

mysql>

?????

title	character_count
Avatar	6
Pirates of the Caribbean: At World's End	40
Spectre	7
The Dark Knight Rises	21
John Carter	11
Spider-Man 3	12
Tangled	7
Avengers: Age of Ultron	23
Harry Potter and the Half-Blood Prince	38
Batman v Superman: Dawn of Justice	34
Superman Returns	16
Quantum of Solace	17
Pirates of the Caribbean: Dead Man's Chest	42
The Lone Ranger	15



```
mysql> select CONCAT(SUBSTR(title, 1, 8), "...") as short_title, director_name from movie;
```

?????