

# P7:STRINGS



1. Concat the name and surname of the employees using the separator ' ' using the function CONCAT\_WS. 3
2. Format employees' commission with format ##,## (you must check MariaDB docs, not only the slides...). 3
3. Return the position of the first A in the employees' surname. 4
4. Return the position of the second A in the employees' surname. Clue: Check IF function and use nested functions SUBSTRING and INSTR. 4
5. Return the full name of the employees with the next format: 5
6. Select all the full names of the databases but changing 'IO' for 'IOTE'. If you do this using string function in a SELECT clause you don't change the data stored in the database... 5
7. Update all the names like Antonio or Antonia with Tonio or Tonia. You must use UPDATE and the function REPLACE. 6
8. Show the surnames of the employees with an underscore after the second char. 6
9. Write the first char of the surnames and the first char of the surnames in ASCII code. 7
10. Show the full name of the employees but ensuring that there won't be white spaces before and/or after the name and/or surname. 7



### 3. Return the position of the first A in the employees' surname.

```
SELECT surname, locate('a',surname) as position FROM EMPLOYEES;
```

	surname	position
1	PITT	0
2	SÁNCHEZ	2
3	ARROYO	1
4	SALA	2
5	JIMÉNEZ	0
6	MARTÍN	2
7	GOMIS	0
8	CEREZO	0
9	GILBERTO	0
10	TOVAR	4
11	ALONSO	1
12	JIMENO	0
13	FERNÁNDEZ	5
14	MUÑOZ	0
15	BANDERAS	2
16	RUIZ	0

surname	FirstA
PITT	0
SÁNCHEZ	2
ARROYO	1
SALA	2
JIMÉNEZ	0
MARTÍN	2
GOMIS	0
CEREZO	0
GILBERTO	0
TOVAR	4
ALONSO	1
JIMENO	0
FERNÁNDEZ	5
MUÑOZ	0
BANDERAS	2
RUIZ	0

16 rows in set (0.001 sec)

### 4. Return the position of the second A in the employees' surname. Clue: Check [IF function](#) and use nested functions SUBSTRING and INSTR.

```
SELECT surname, if ( instr(substring(surname,
instr(surname,'a')+1),'a')=0, 0,
instr(surname,'a')+instr(substring(surname,
instr(surname,'a')+1),'a')
) as SecondA FROM EMPLOYEES;
```

	surname	SecondA
1	PITT	0
2	SÁNCHEZ	0
3	ARROYO	0
4	SALA	4
5	JIMÉNEZ	0
6	MARTÍN	0
7	GOMIS	0
8	CEREZO	0
9	GILBERTO	0
10	TOVAR	0
11	ALONSO	0
12	JIMENO	0
13	FERNÁNDEZ	0
14	MUÑOZ	0
15	BANDERAS	7
16	RUIZ	0

surname	SecondA
PITT	0
SÁNCHEZ	0
ARROYO	0
SALA	4
JIMÉNEZ	0
MARTÍN	0
GOMIS	0
CEREZO	0
GILBERTO	0
TOVAR	0
ALONSO	0
JIMENO	0
FERNÁNDEZ	0
MUÑOZ	0
BANDERAS	7
RUIZ	0

16 rows in set (0.003 sec)

### 5. Return the full name of the employees with the next format:

```
SELECT concat_ws(' ', concat(left(name,1),lower(substring(name,2,length(name))))),concat(left(surname,1),lower(substring(surname,2,length(surname)))) as FullName
FROM EMPLOYEES;
```

	FullName
1	Brad Pitt
2	Sergio Sánchez
3	Marta Arroyo
4	Rebeca Sala
5	Juan Jiménez
6	Monica Martín
7	Bartolome Gomis
8	Maria Cerezo
9	Jesus Gilberto
10	Luis Tovar
11	Fernando Alonso
12	Xavier Jimeno
13	Ana Fernández
14	Antonia Muñoz
15	Antonio Banderas
16	Fernanda Ruiz

```
+-----+
| FullName |
+-----+
| Brad Pitt |
| Sergio Sánchez |
| Marta Arroyo |
| Rebeca Sala |
| Juan Jiménez |
| Monica Martín |
| Bartolome Gomis |
| Maria Cerezo |
| Jesus Gilberto |
| Luis Tovar |
| Fernando Alonso |
| Xavier Jimeno |
| Ana Fernández |
| Antonia Muñoz |
| Antonio Banderas |
| Fernanda Ruiz |
+-----+
16 rows in set (0.005 sec)
```

### 6. Select all the full names of the databases but changing 'IO' for 'IOTE'. If you do this using string function in a SELECT clause you don't change the data stored in the database...

```
SELECT replace(concat_ws(' ',name,surname), 'IO','IOTE') as IOTE_Name FROM EMPLOYEES;
```

	IOTE_Name
1	BRAD PITT
2	SERGIOTE SÁNCHEZ
3	MARTA ARROYO
4	REBECA SALA
5	JUAN JIMÉNEZ
6	MONICA MARTÍN
7	BARTOLOME GOMIS
8	MARIA CEREZO
9	JESUS GILBERTO
10	LUIS TOVAR
11	FERNANDO ALONSO
12	XAVIER JIMENO
13	ANA FERNÁNDEZ
14	ANTONIA MUÑOZ
15	ANTONIOTE BANDERAS
16	FERNANDA RUIZ

```
+-----+
| IOTE_NAME |
+-----+
| BRAD PITT |
| SERGIOTE SÁNCHEZ |
| MARTA ARROYO |
| REBECA SALA |
| JUAN JIMÉNEZ |
| MONICA MARTÍN |
| BARTOLOME GOMIS |
| MARIA CEREZO |
| JESUS GILBERTO |
| LUIS TOVAR |
| FERNANDO ALONSO |
| XAVIER JIMENO |
| ANA FERNÁNDEZ |
| ANTONIA MUÑOZ |
| ANTONIOTE BANDERAS |
| FERNANDA RUIZ |
+-----+
16 rows in set (0.001 sec)
```

7. Update all the names like Antonio or Antonia with Tonio or Tonia. You must use UPDATE and the function REPLACE.

```
UPDATE EMPLOYEES
SET name = replace(name, 'ANTONIA','TONIA'), name = replace(name,
'ANTONIO','TONIO');

SQLINDRMALSTRINGS> UPDATE EMPLOYEES
SET name = replace(name, 'ANTONIA','TONIA'), name = replace(name, 'ANTONIO','TONIO')
[2021-03-14 20:13:06] 16 rows affected in 35 ms
```

8. Show the surnames of the employees with an underscore after the second char.

```
SELECT
concat_ws('_',substring(surname,1,2),substring(surname,3,length(su
rname))) as Surname FROM EMPLOYEES;
```

	Surname
1	PI TT
2	SÁ NCHEZ
3	AR ROYO
4	SA LA
5	JI MÉNEZ
6	MA RTÍN
7	GO MIS
8	CE REZO
9	GI LBERTO
10	TO VAR
11	AL ONSO
12	JI MENO
13	FE RNÁNDEZ
14	MU ÑOZ
15	BA NDERAS
16	RU IZ

```
+-----+
| Surname
+-----+
| PI TT
| SÁ NCHEZ
| AR ROYO
| SA LA
| JI MÉNEZ
| MA RTÍN
| GO MIS
| CE REZO
| GI LBERTO
| TO VAR
| AL ONSO
| JI MENO
| FE RNÁNDEZ
| MU ÑOZ
| BA NDERAS
| RU IZ
+-----+
16 rows in set (0.001 sec)
```

9. Write the first char of the surnames and the first char of the surnames in ASCII code.

```
SELECT left(surname,1) as FirstChar, ascii(left(surname,1)) as SurnameAscii FROM EMPLOYEES;
```

	FirstChar	SurnameAscii
1	P	80
2	S	83
3	A	65
4	S	83
5	J	74
6	M	77
7	G	71
8	C	67
9	G	71
10	T	84
11	A	65
12	J	74
13	F	70
14	M	77
15	B	66
16	R	82

FirstChar	SurnameASCII
P	80
S	83
A	65
S	83
J	74
M	77
G	71
C	67
G	71
T	84
A	65
J	74
F	70
M	77
B	66
R	82

16 rows in set (0.001 sec)

10. Show the full name of the employees but ensuring that there won't be white spaces before and/or after the name and/or surname.

```
SELECT concat_ws(' ',trim(name),trim(surname)) as FullName FROM EMPLOYEES;
```

	FullName
1	BRAD PITT
2	SERGIO SÁNCHEZ
3	MARTA ARROYO
4	REBECA SALA
5	JUAN JIMÉNEZ
6	MONICA MARTÍN
7	BARTOLOME GOMIS
8	MARIA CEREZO
9	JESUS GILBERTO
10	LUIS TOVAR
11	FERNANDO ALONSO
12	XAVIER JIMENO
13	ANA FERNÁNDEZ
14	TONIA MUÑOZ
15	TONIO BANDERAS
16	FERNANDA RUIZ

FullName
BRAD PITT
SERGIO SÁNCHEZ
MARTA ARROYO
REBECA SALA
JUAN JIMÉNEZ
MONICA MARTÍN
BARTOLOME GOMIS
MARIA CEREZO
JESUS GILBERTO
LUIS TOVAR
FERNANDO ALONSO
XAVIER JIMENO
ANA FERNÁNDEZ
TONIA MUÑOZ
TONIO BANDERAS
FERNANDA RUIZ

16 rows in set (0.001 sec)